FT Simple Scout XL

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Designed By: Josh Bixler and Dan Sponholz
Plans By: Dan Sponholz
Version: 1.0
Date: 2022.02.22



*Special thanks to beta builders:
Ben Harber and Joshua Orchard

General Specifications:

Length:	44 in (1118 mm)
Center of Gravity:	3.78 in (96 mm)
Wingspan:	58 in (1473 mm)
Wing Area:	774 in² (50 dm²)
Dry Weight:	35.3 oz. (1000 g)
All Up Weight:	49.4 oz. (1400 g)
Wing Loading:	9.19 oz/ft² (28.1 g/dm²)
Wing Cubic Loading:	4

Recommended Settings:

Channels:	4 (T A E R)
Throws:	12°
Expo:	30%

Recommended Electronics:

Motor:	2814-1100 kv
Propeller:	11 x 5
ESC:	40 amp
Servos:	4X 9 gram
Battery:	4400 mAh 3S LiPo

Contruction Material:

This model is designed to be built with 30" x 20" x 3/16" FliteTest Water Resistant Maker Foam, or Adams Readi-board foam board with a weight per sheet of approximately 4 oz. Use of heavier foam board may affect flight performance.

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Build Skill Level:



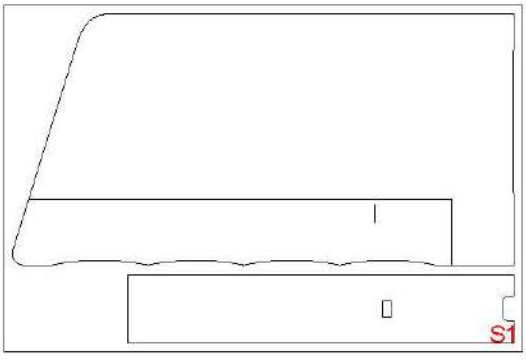
Pilot Skill Level:

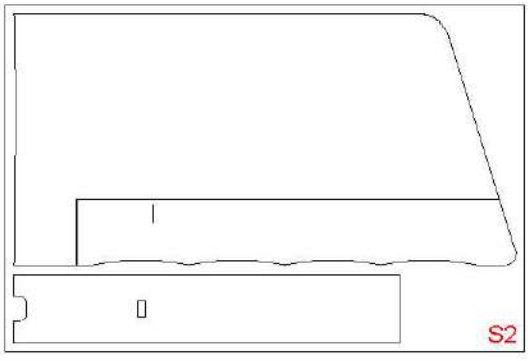


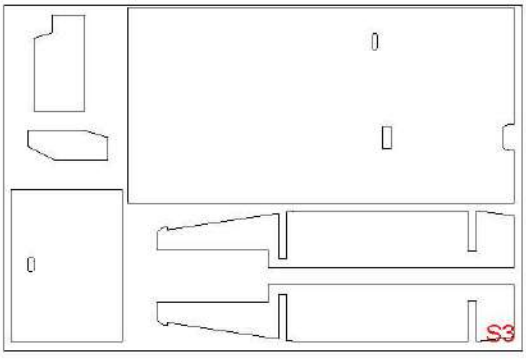
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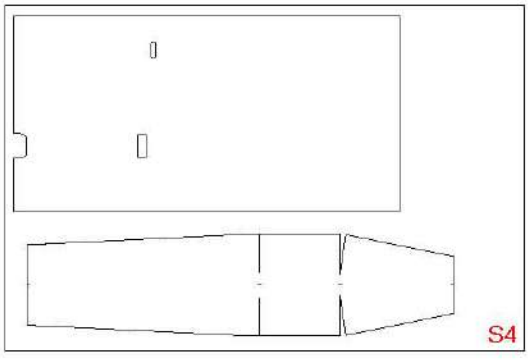
FT Simple Scout XL
Full-Size Key

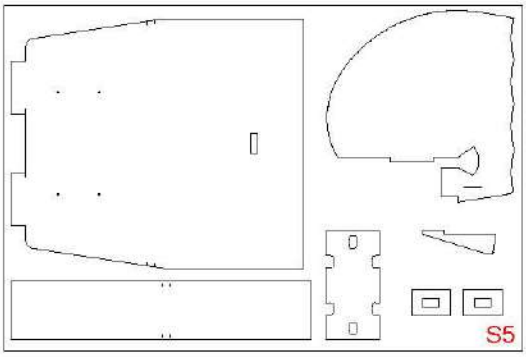


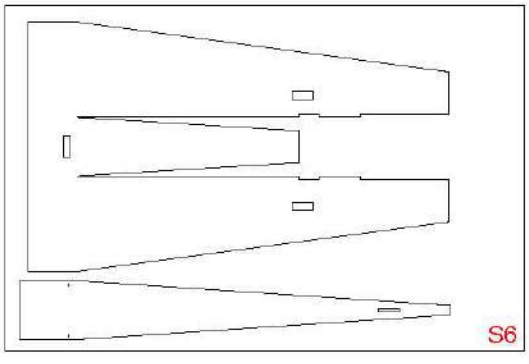


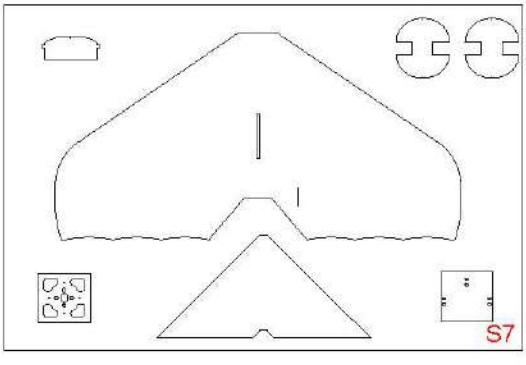


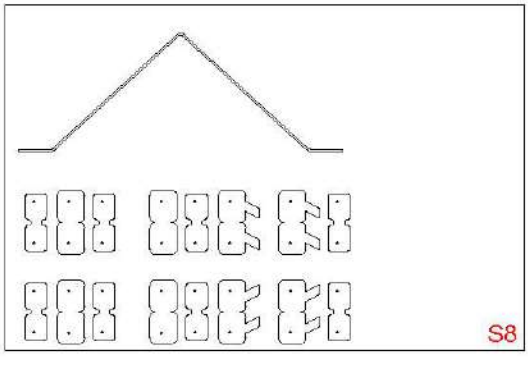










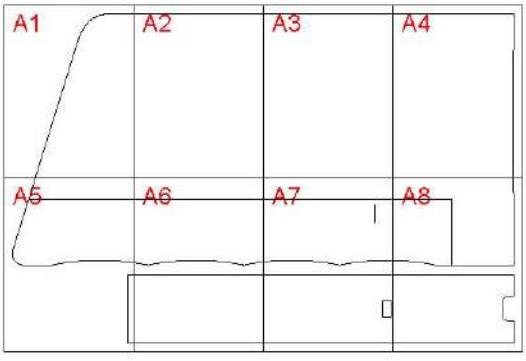


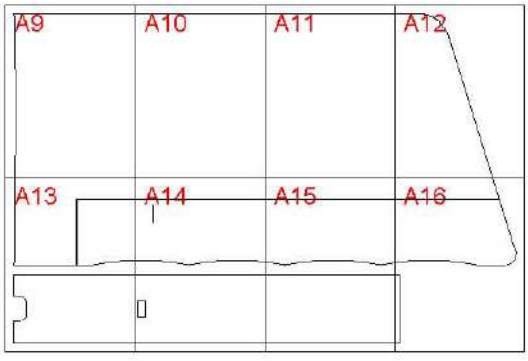
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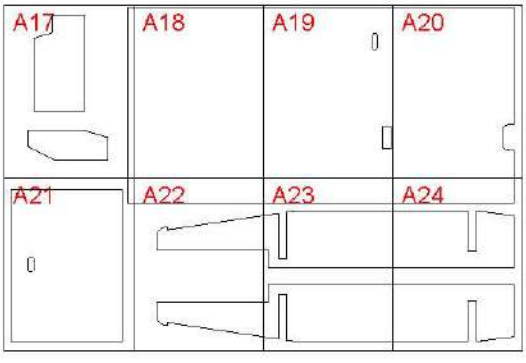
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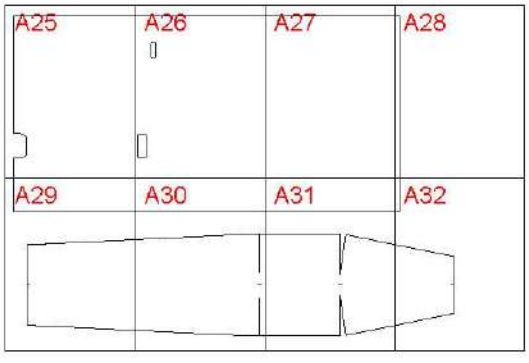
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Tile A-Size Key

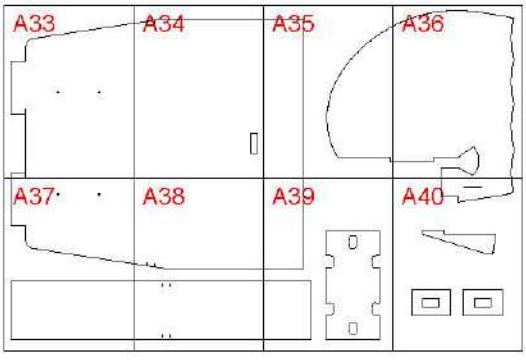


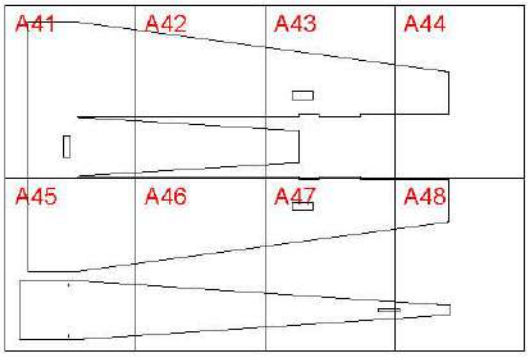


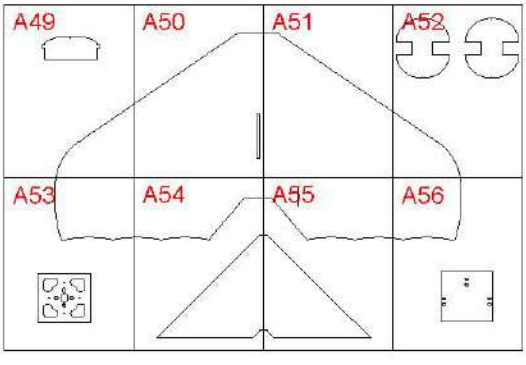


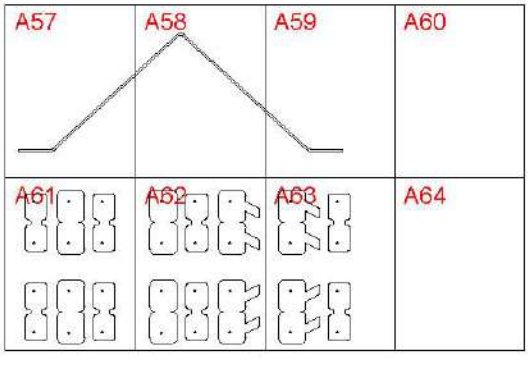








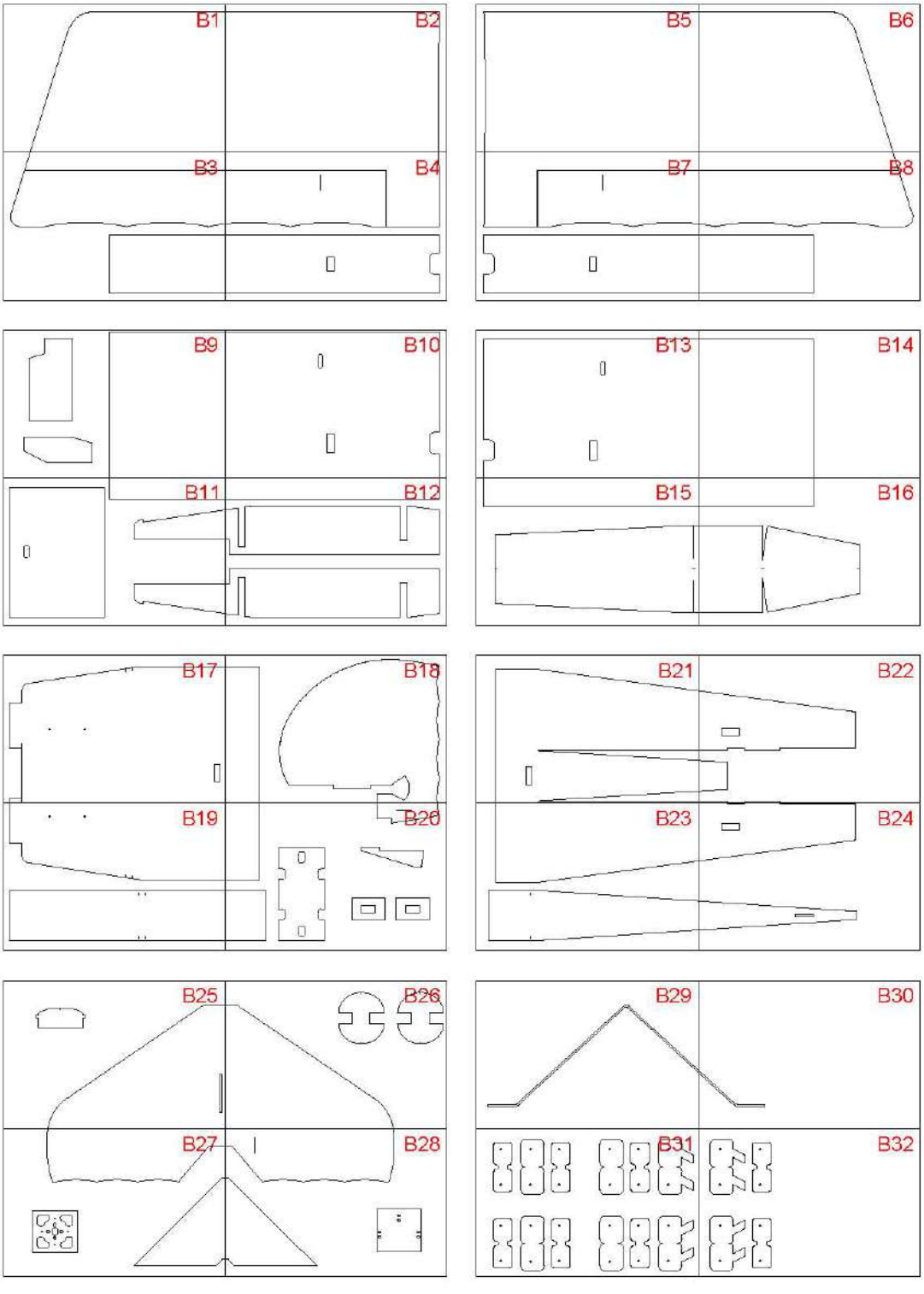




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Tile B-Size Key



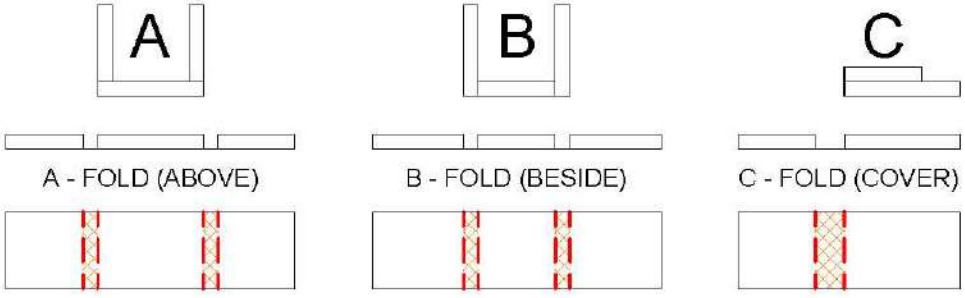


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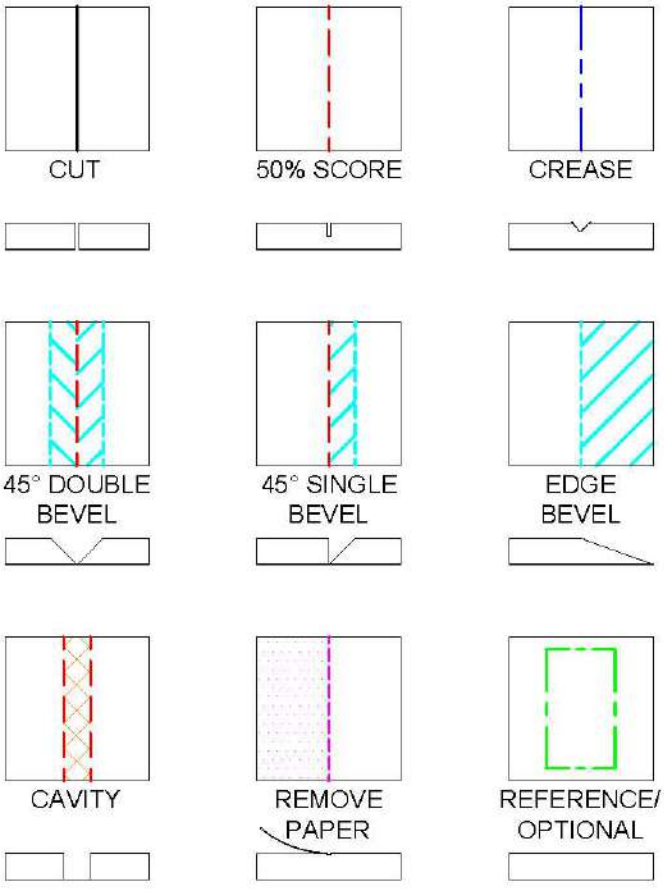
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Drawing Symbol Key

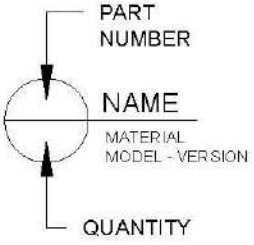
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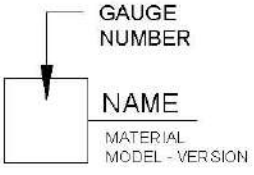


LINE TYPE/COLOR



SYMBOLS





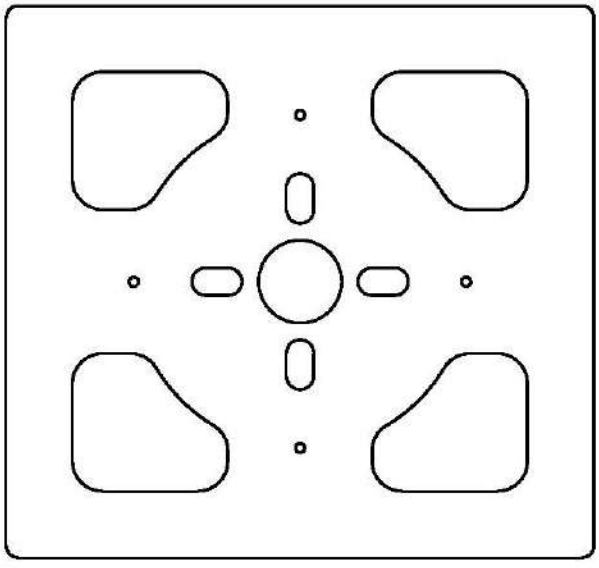


CENTER OF GRAVITY (CG)

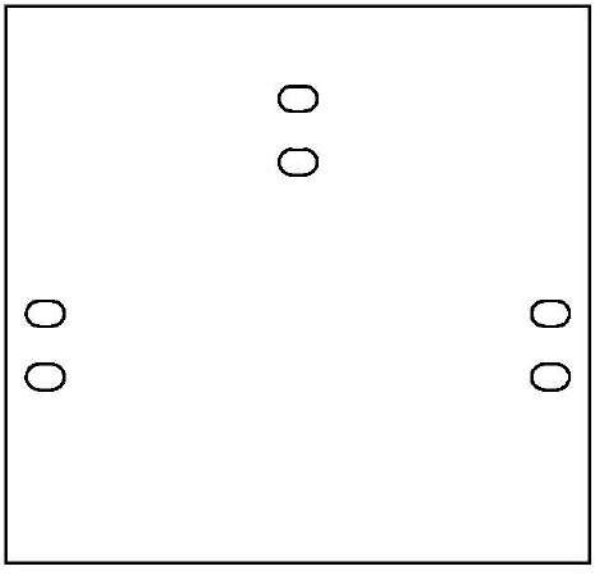
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Wood Parts



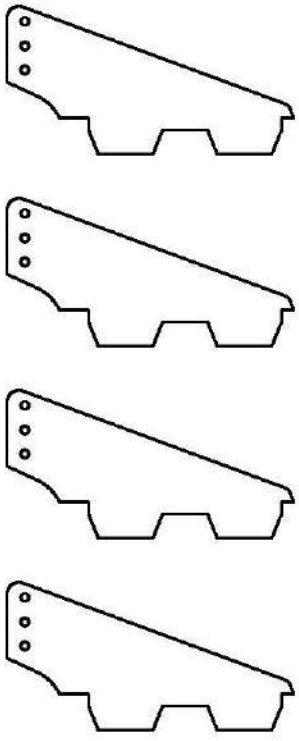


XL FIREWALL



XL GEAR PLATE

HOBBY GRADE PLYWOOD
3/32" (2.4 mm) THICK



CONTROL HORNS

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IN

CM

Design By: Josh Bixler and Dan Sponholz
Plans By: Dan Sponholz
Version: 1.0
Date: 2022.02.22



45° SINGLE BEVEL

4 / 1 RIGHT WING TOP
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

45° SINGLE BEVEL

6 / 2 WING SPAR
FOAM BOARD
FT SIMPLE SCOUT XL
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45° SINGLE BEVEL

2 / 1 LEFT WING TOP
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

45° SINGLE BEVEL

6 / 2 WING SPAR
FOAM BOARD
FT SIMPLE SCOUT XL
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A

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FT Simple Scout XL

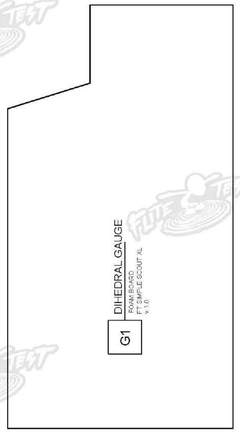
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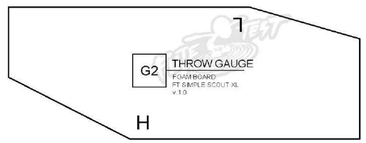
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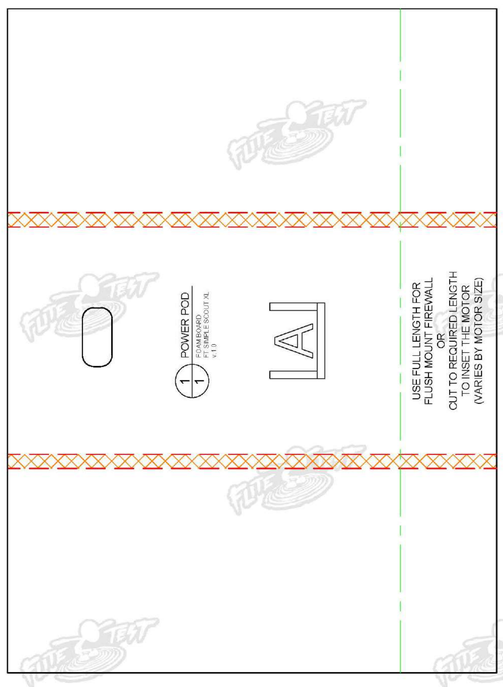
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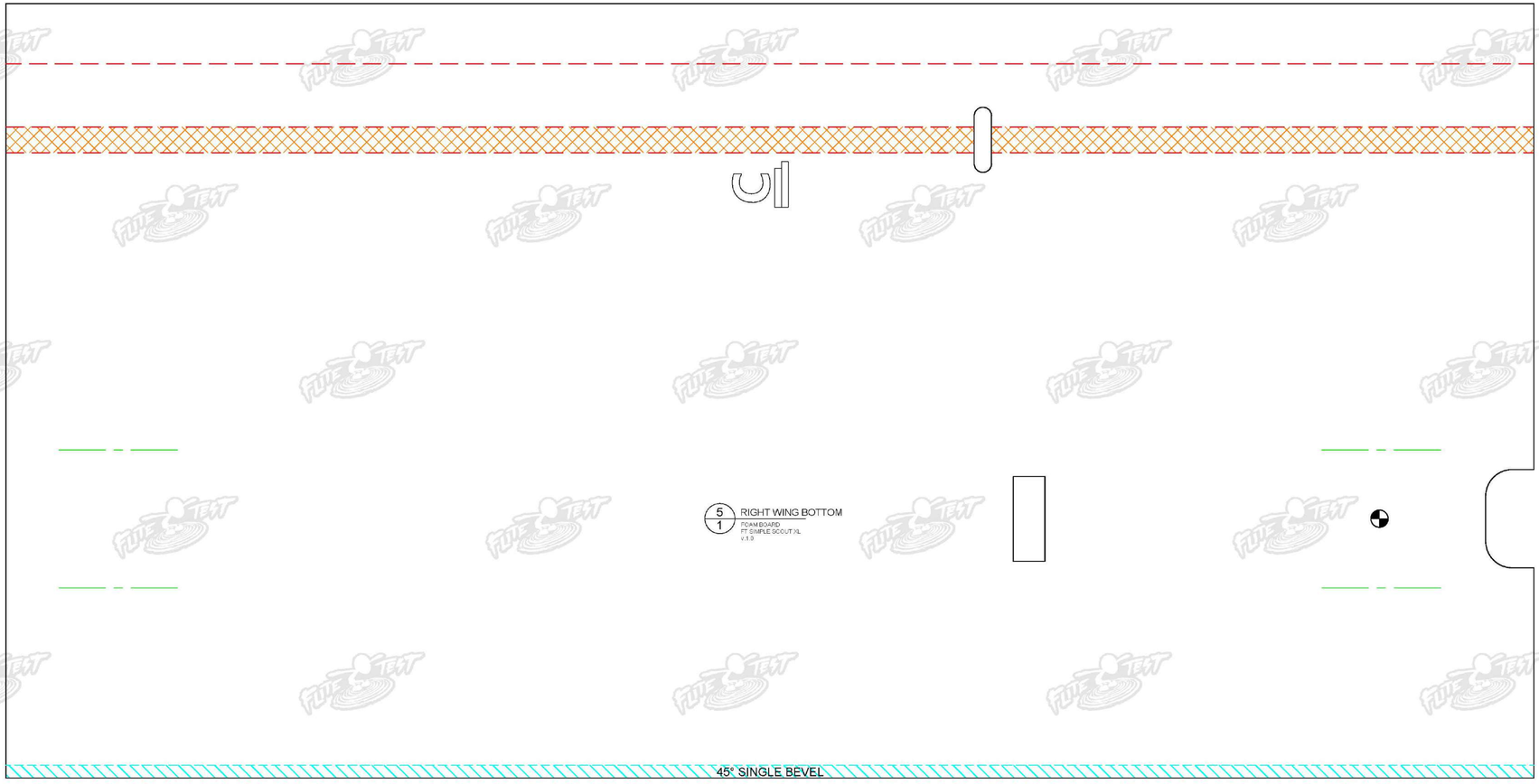
















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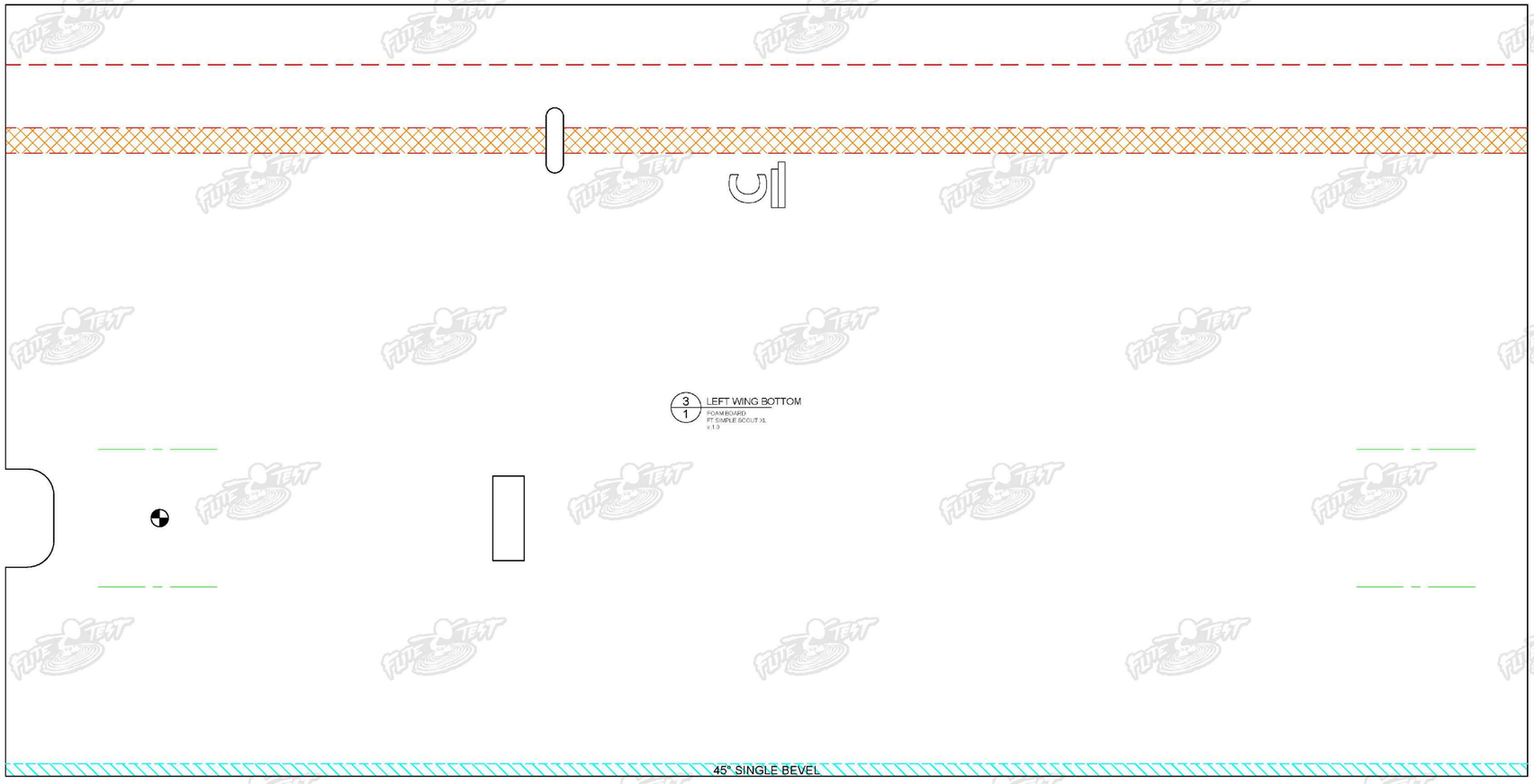
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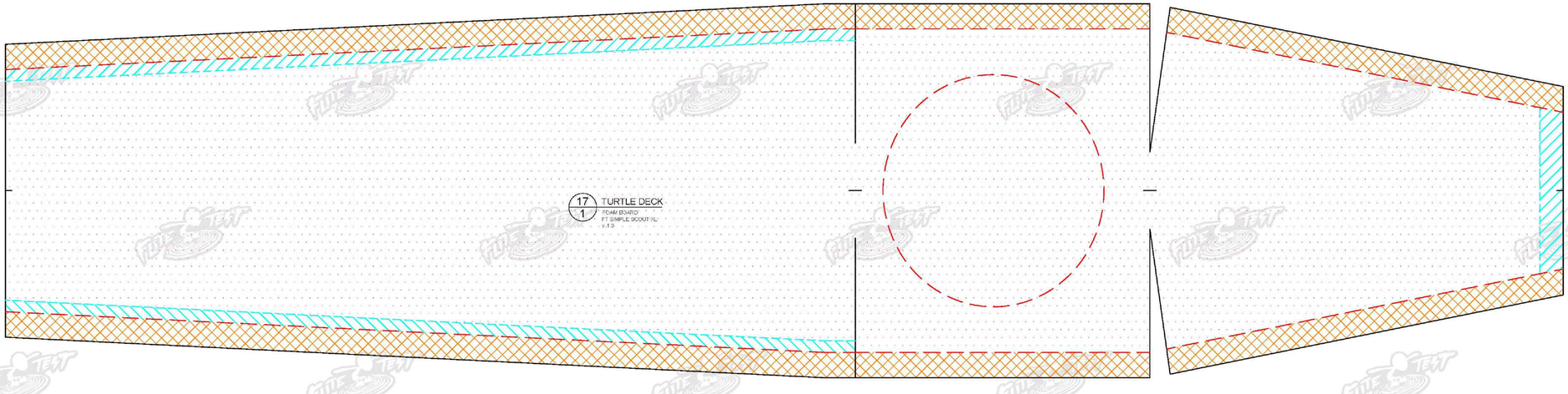
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FUSELAGE FRONT
QTY 1
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

REMOVE AFTER FOLDING

REMOVE AFTER FOLDING

REMOVE AFTER FOLDING

REMOVE AFTER ASSEMBLY

FUSELAGE BOTTOM FRONT
QTY 1
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

REMOVE AFTER ASSEMBLY

VERTICAL STABILIZER
QTY 1
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

45° SINGLE BEVEL

GEAR TAB
QTY 1
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

TAIL SKID
QTY 1
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

SERVO DOUBLER
QTY 2
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

SERVO DOUBLER
QTY 2
FOAM BOARD
FT SIMPLE SCOUT XL
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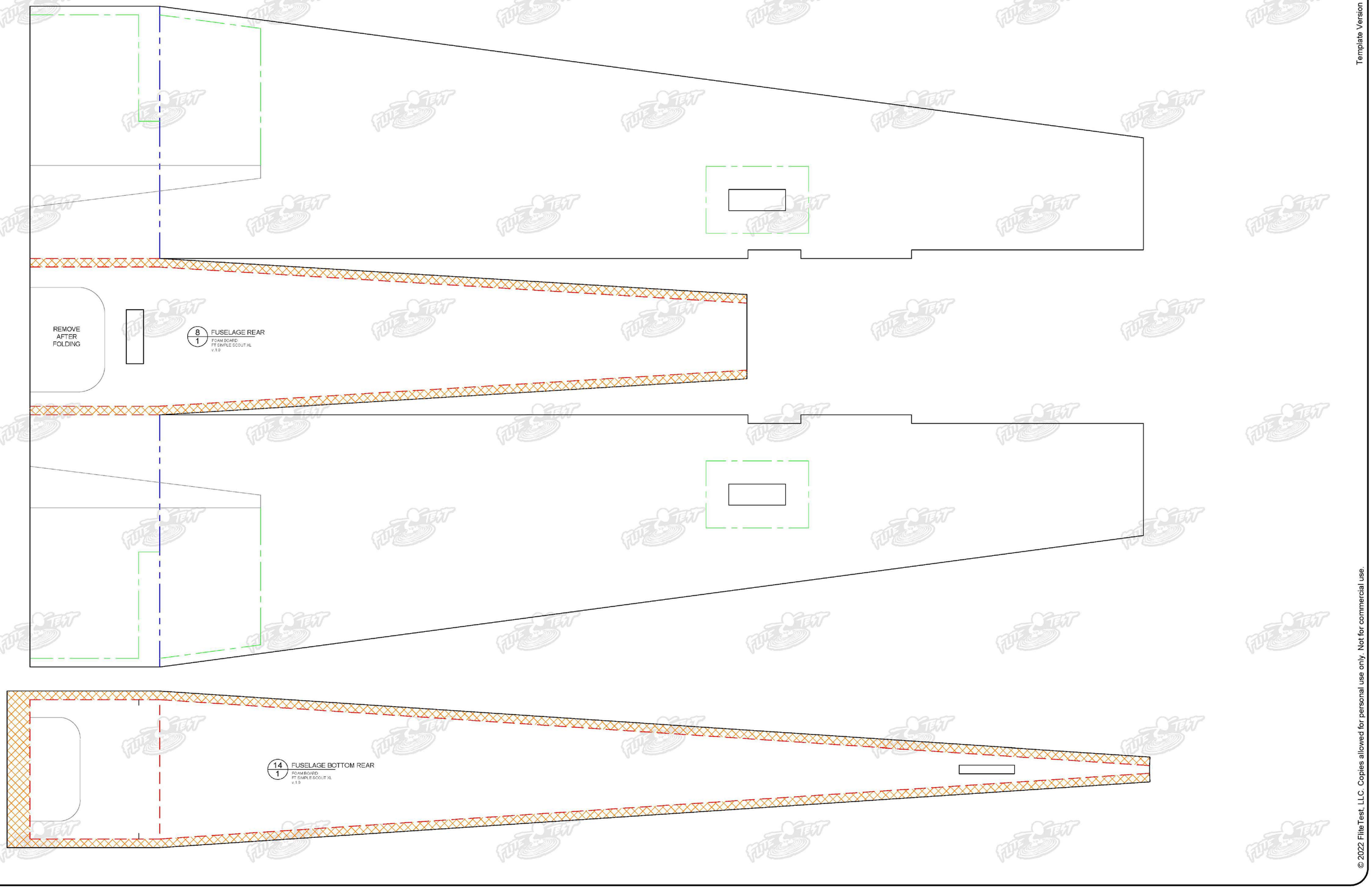
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SIMPLE SCOUT XL



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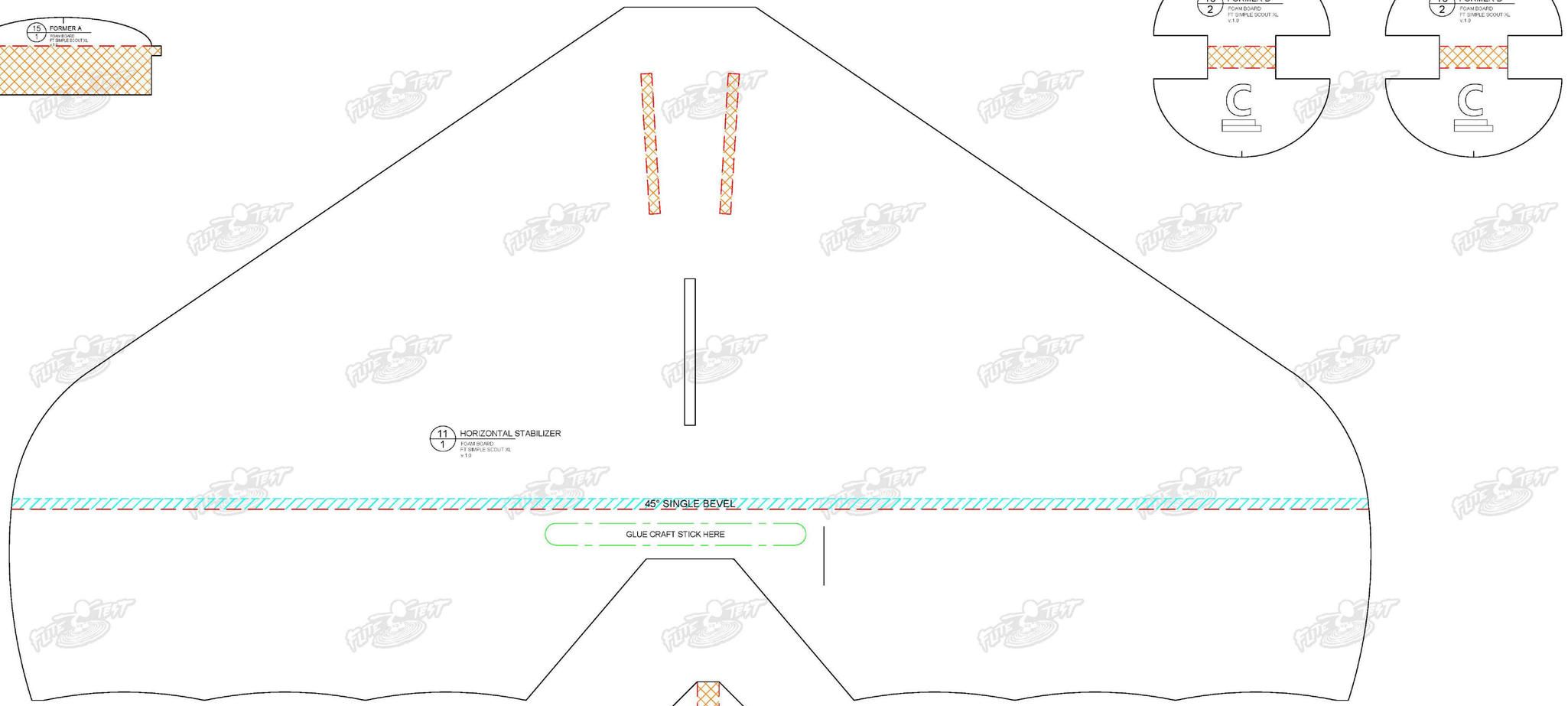
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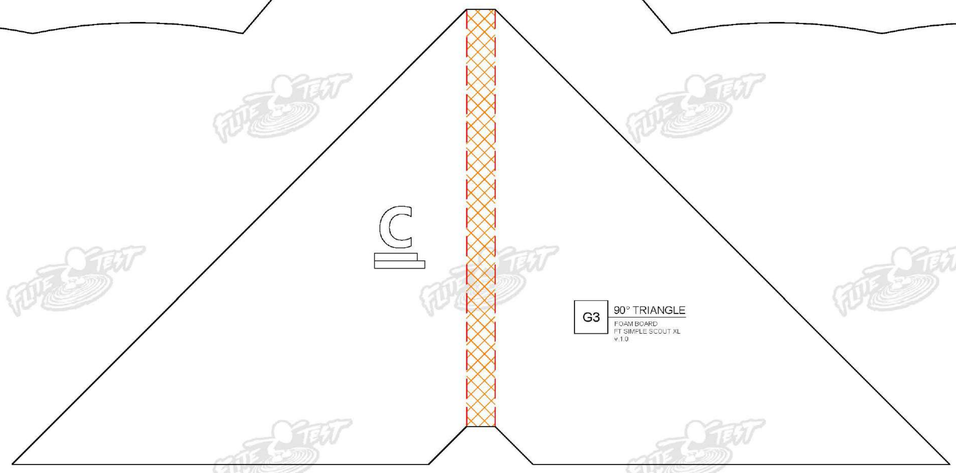
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15 / 1 FORMER A
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

16 / 2 FORMER B
FOAM BOARD
FT SIMPLE SCOUT XL
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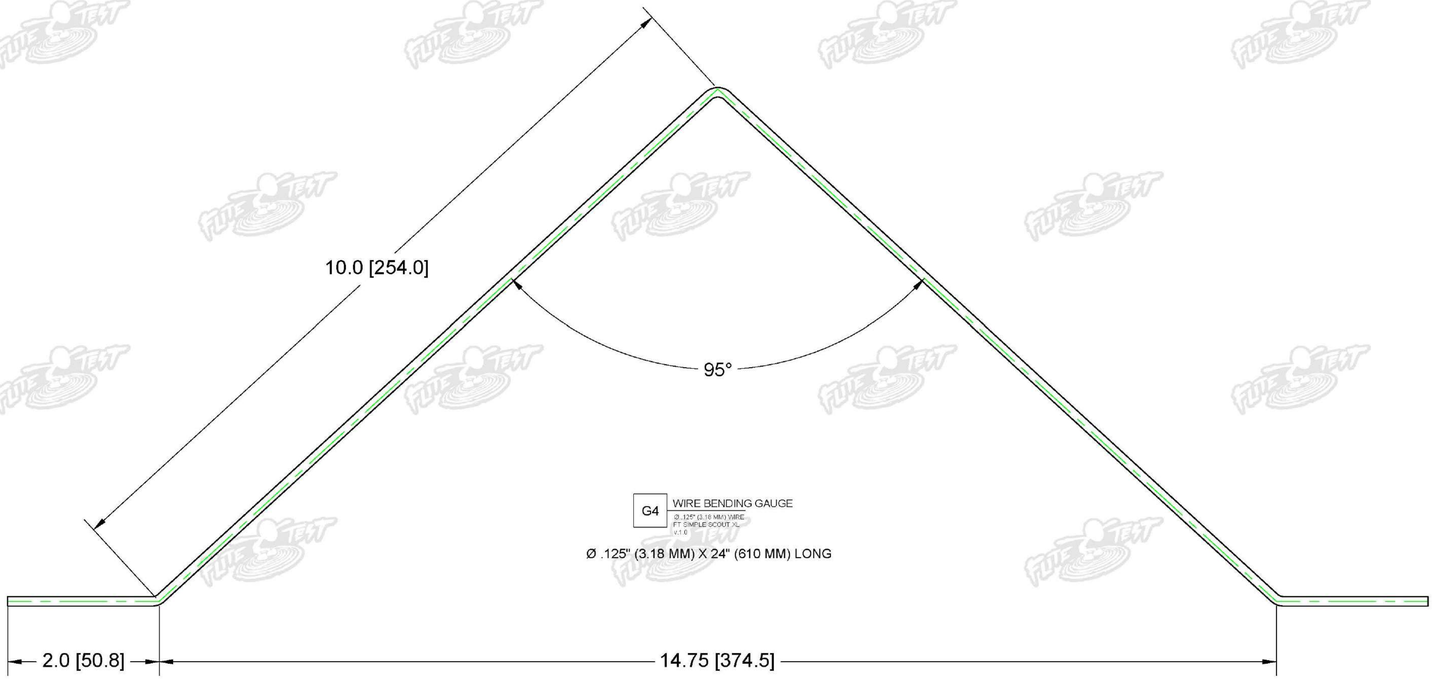
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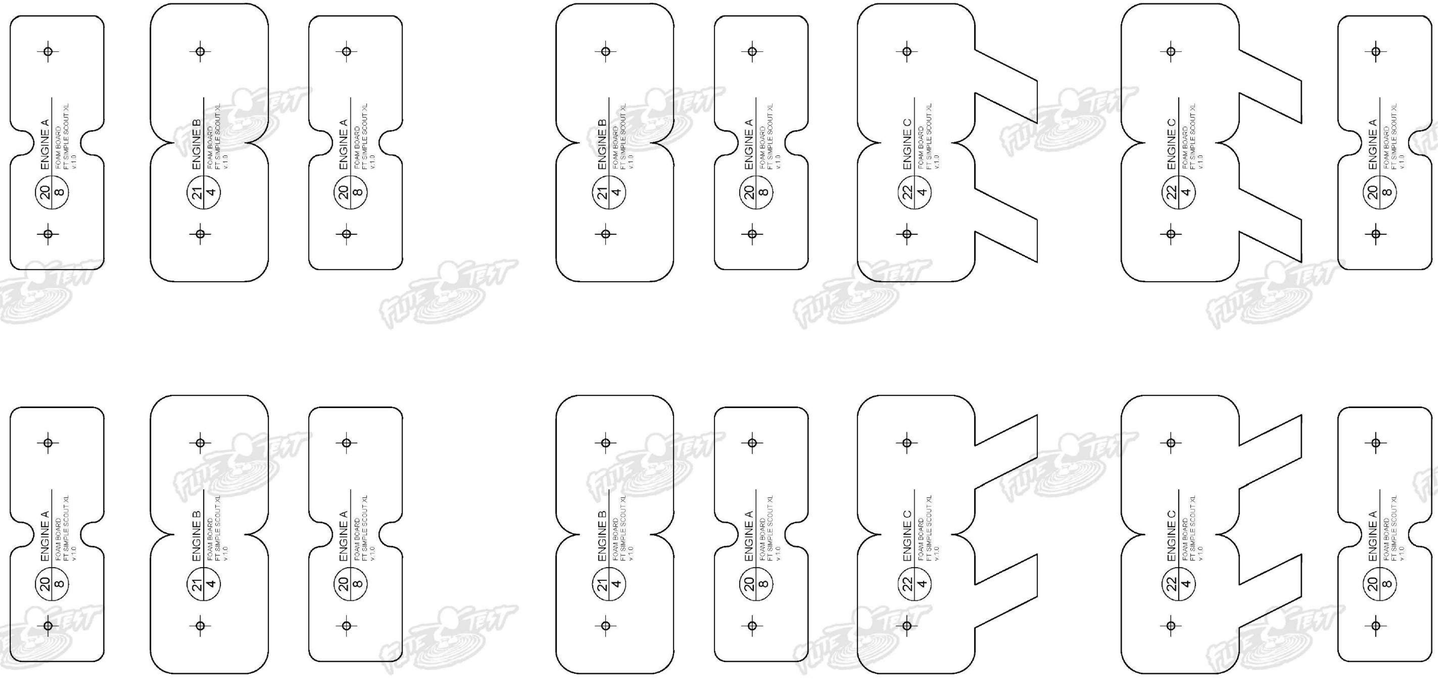
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Version: 1.0
Date: 2022.02.22









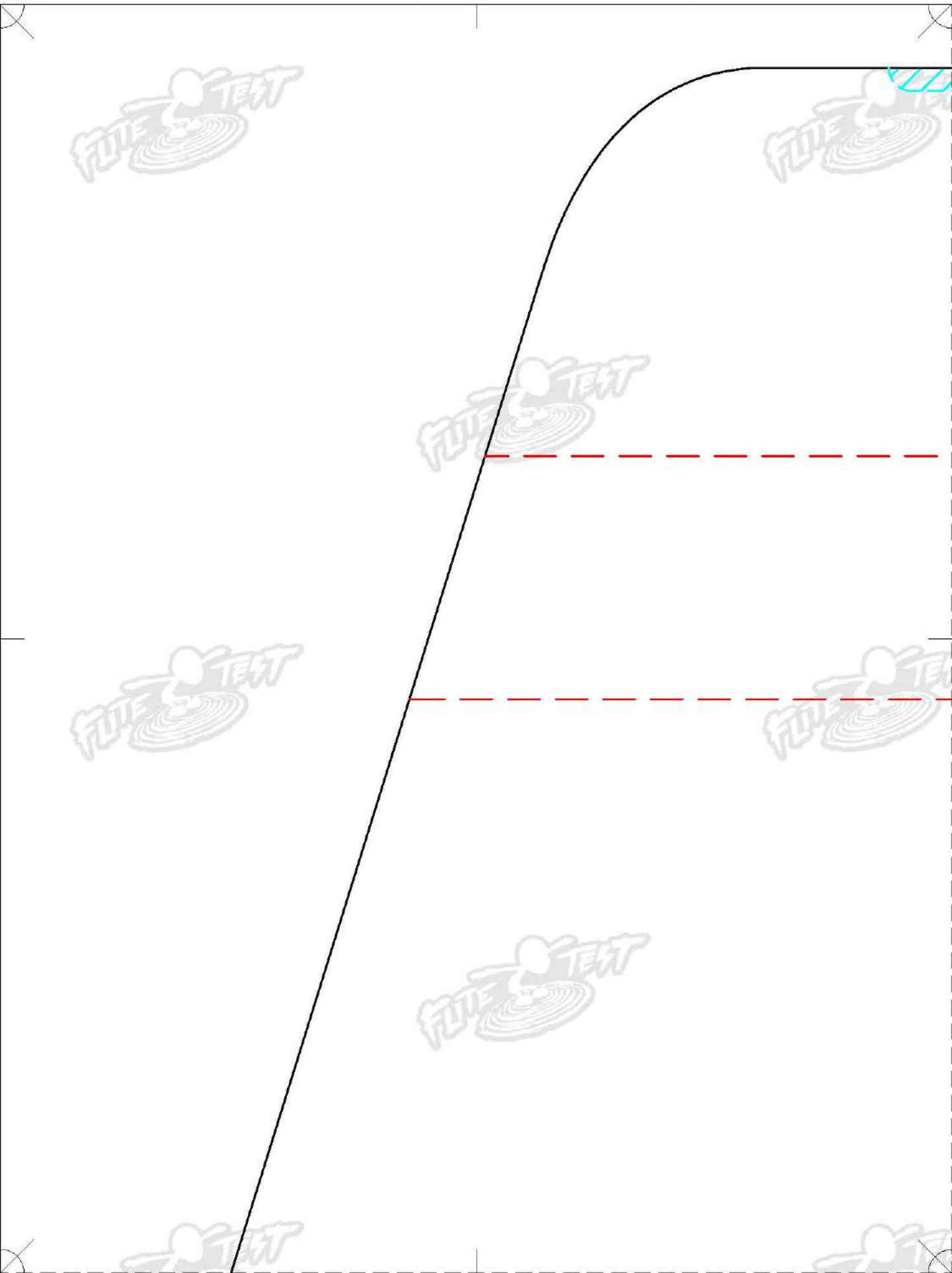
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Template Version 2022.1

FT SIMPLE SCOUT XL v:1.0
TILE-A1

IN
CM



FT SIMPLE SCOUT XL v:1.0
TILE-A2

IN
CM

IN
CM

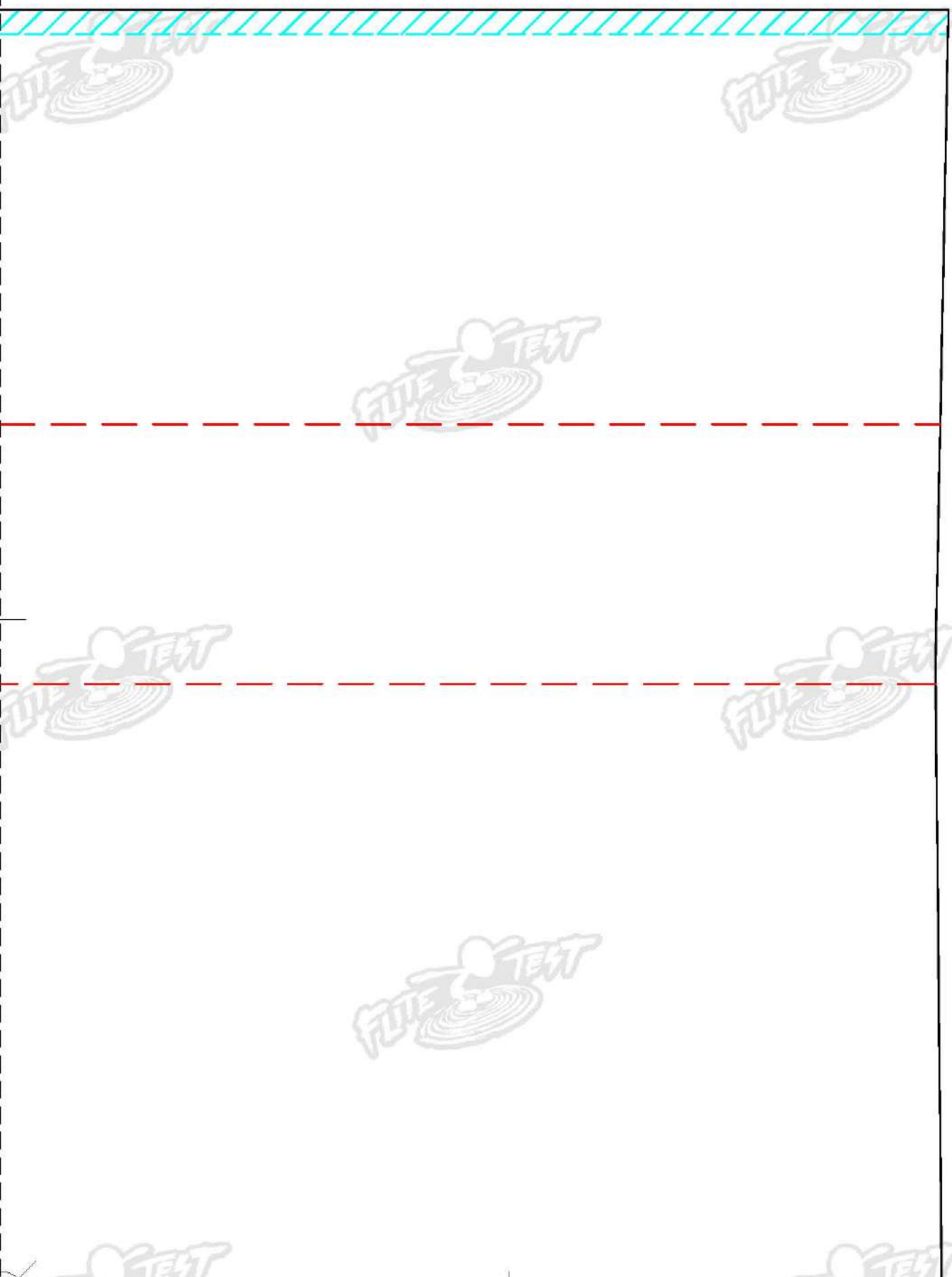
45° SINGLE BEVEL

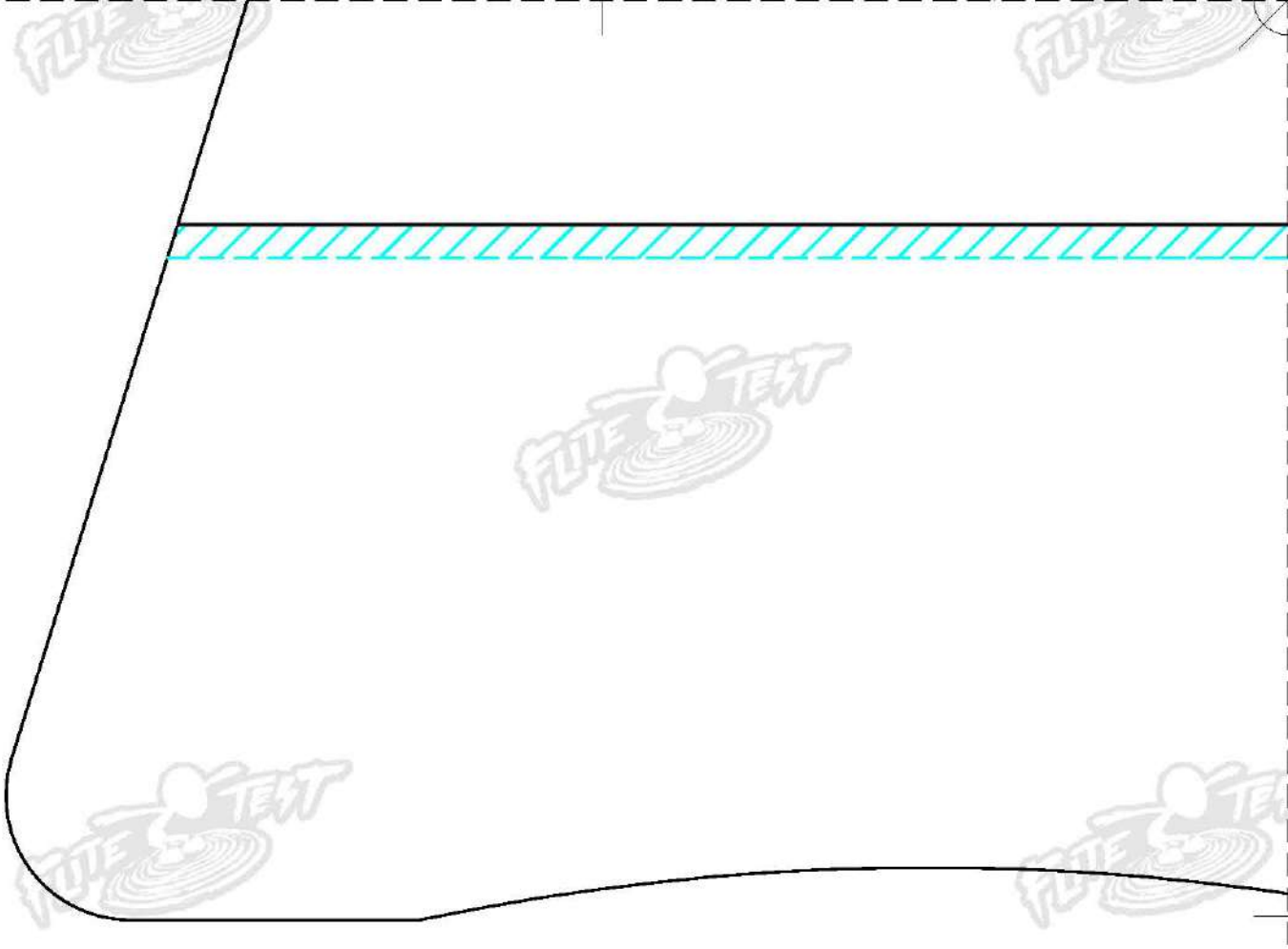
4/1 RIGHT WING TOP

FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

FT SIMPLE SCOUT XL v:1.0
TILE-A4

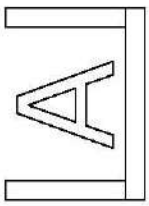
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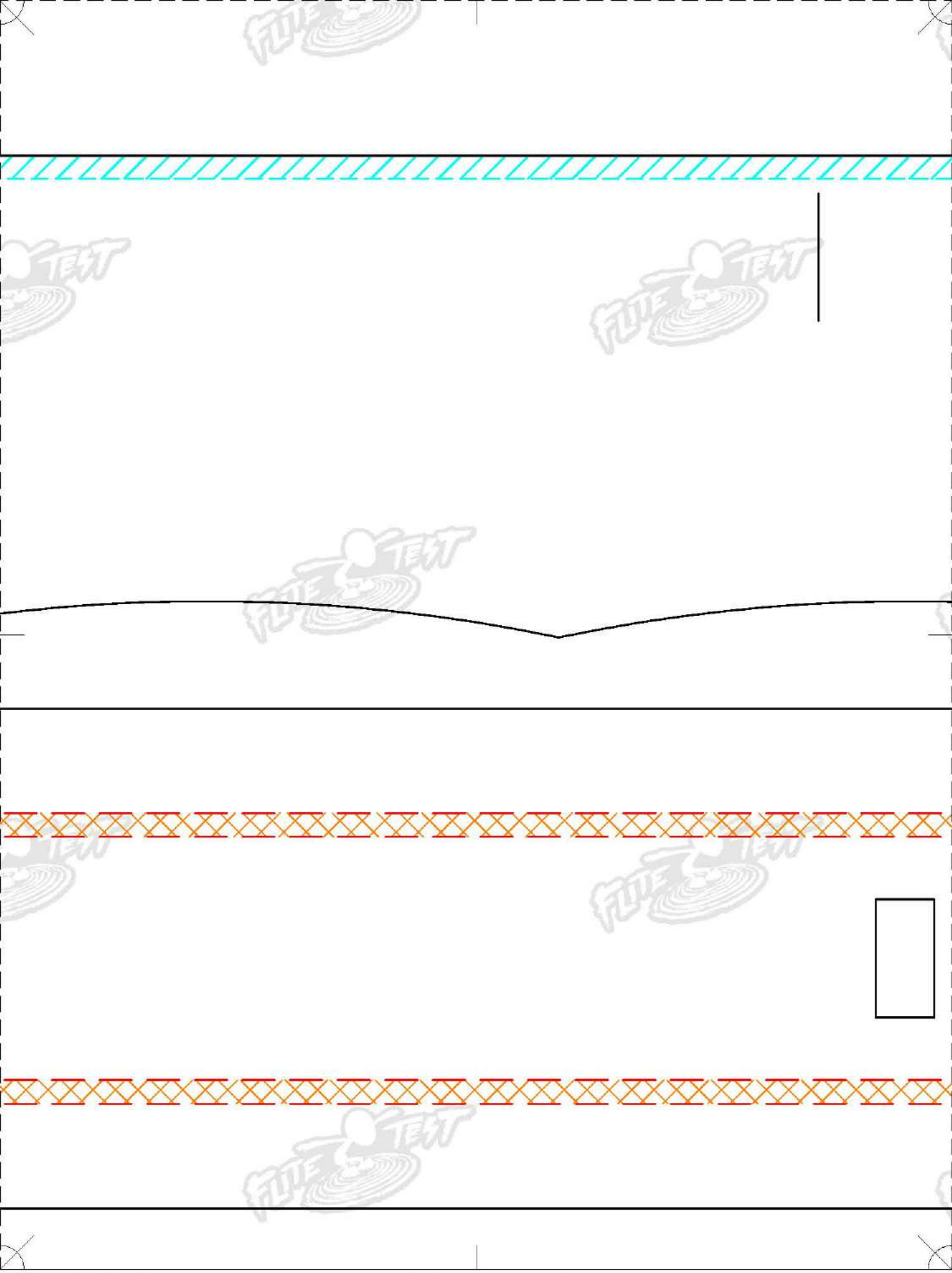


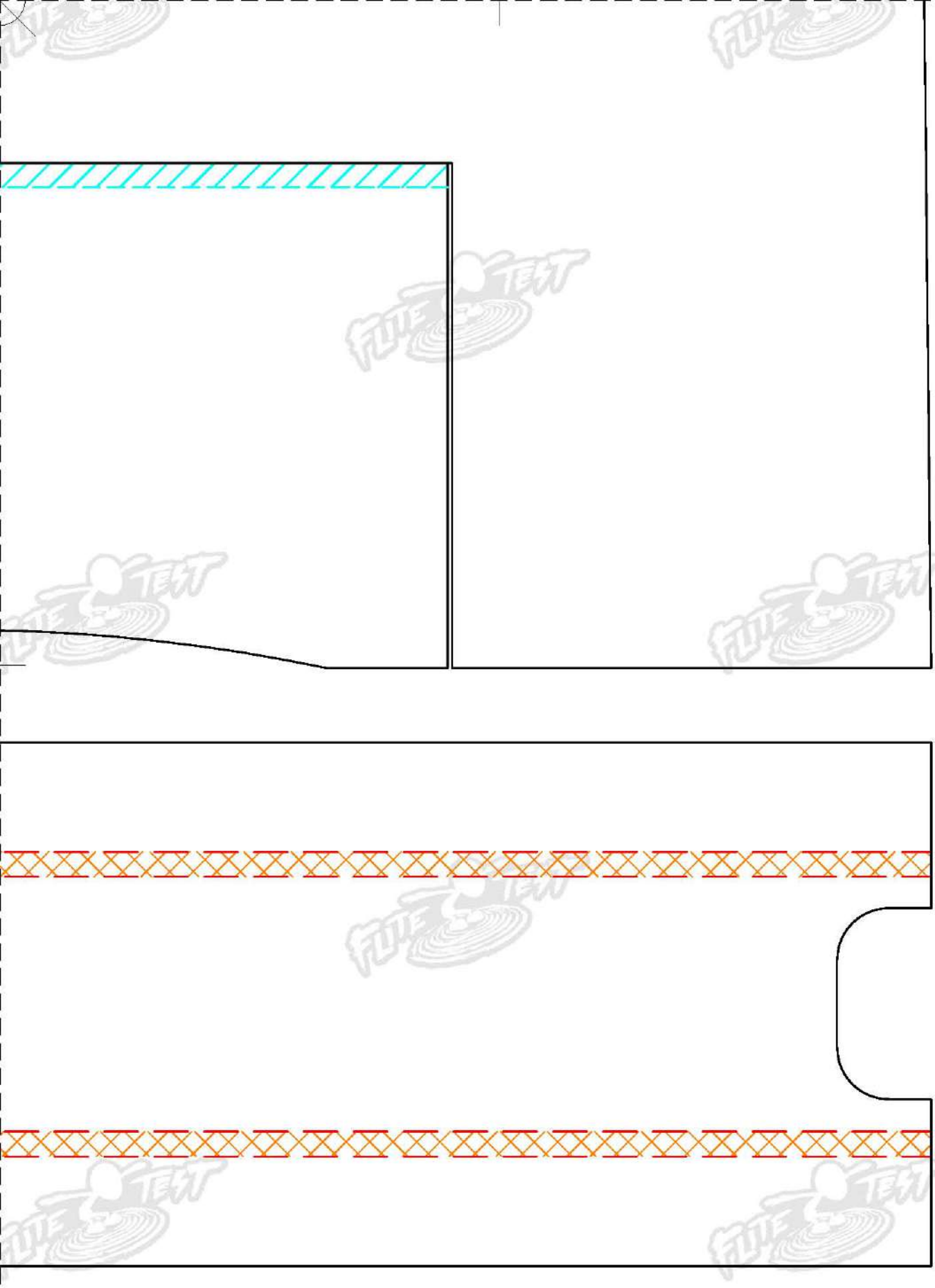
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6/2 WING SPAR

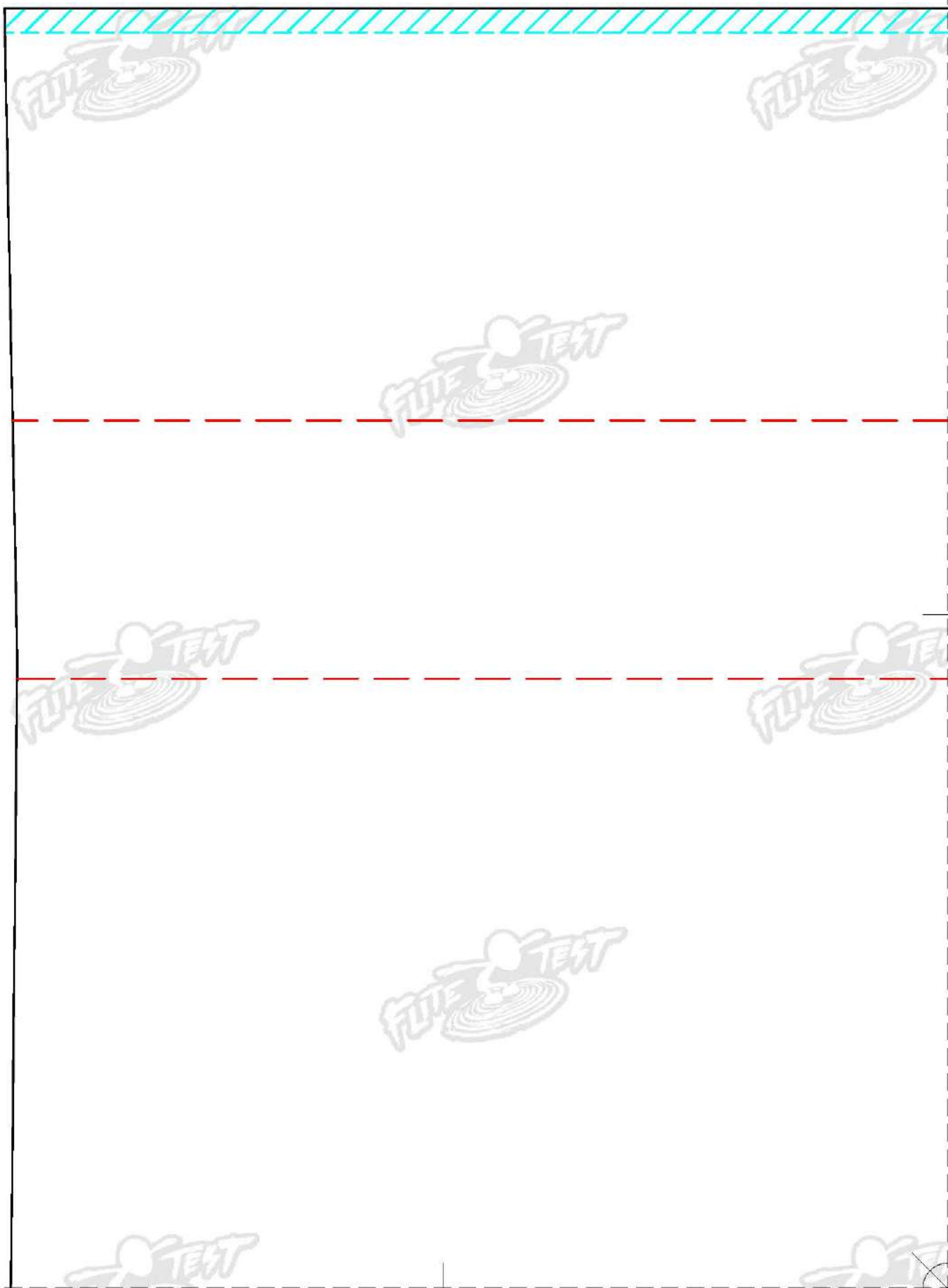
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0





FT SIMPLE SCOUT XL v.1.0
TILE-A9

IN
CM

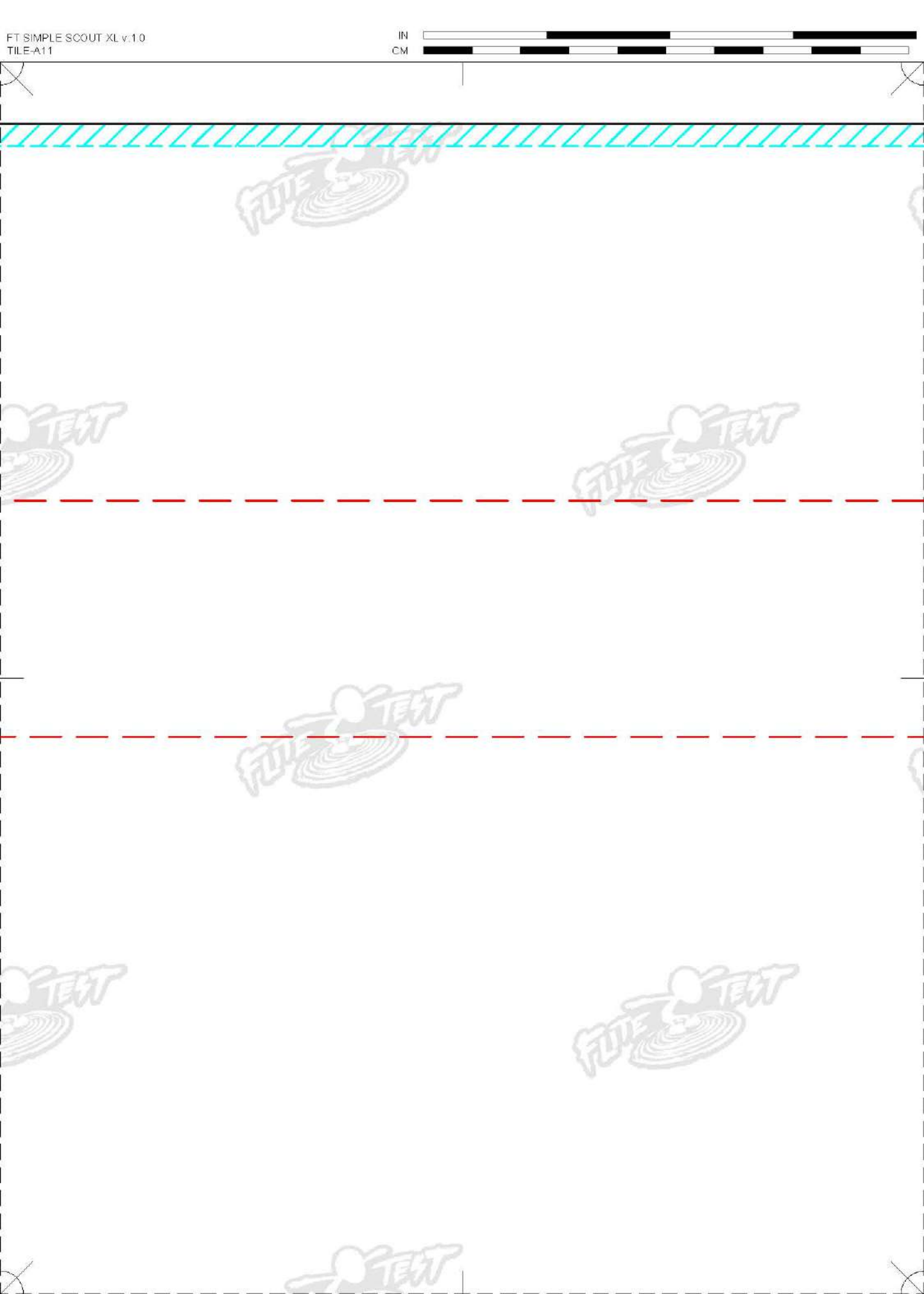


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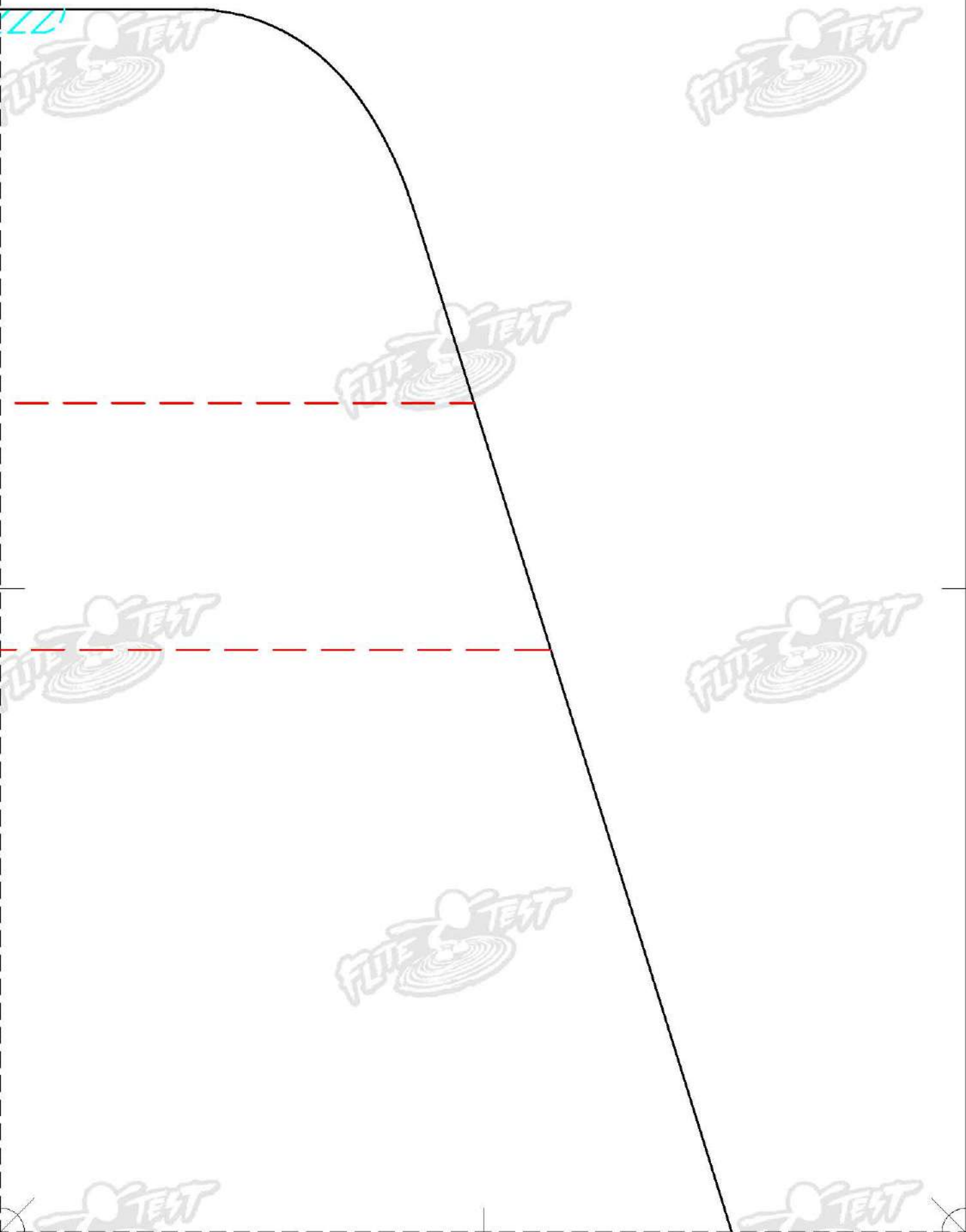
45° SINGLE BEVEL

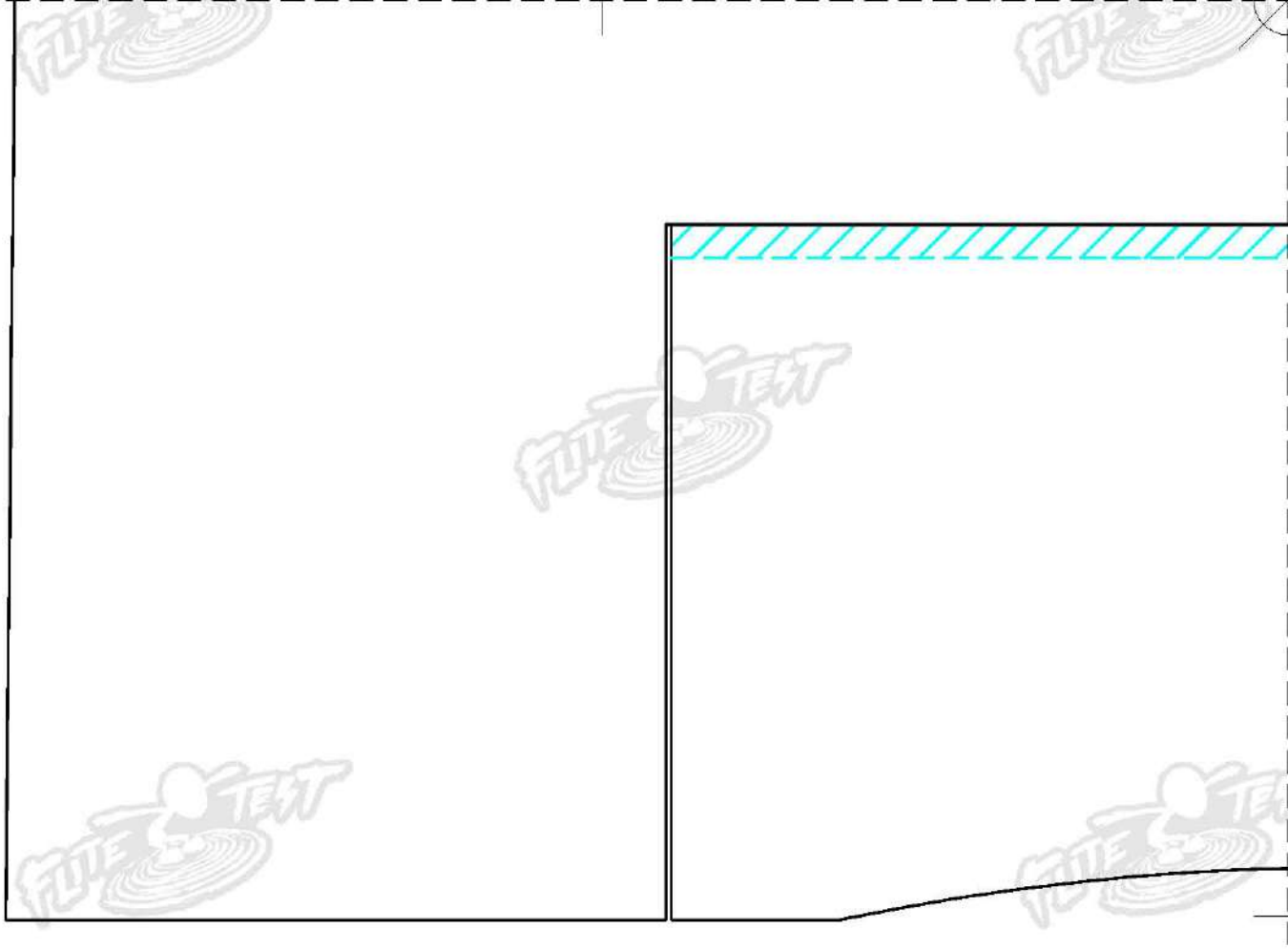
2/1 LEFT WING TOP
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

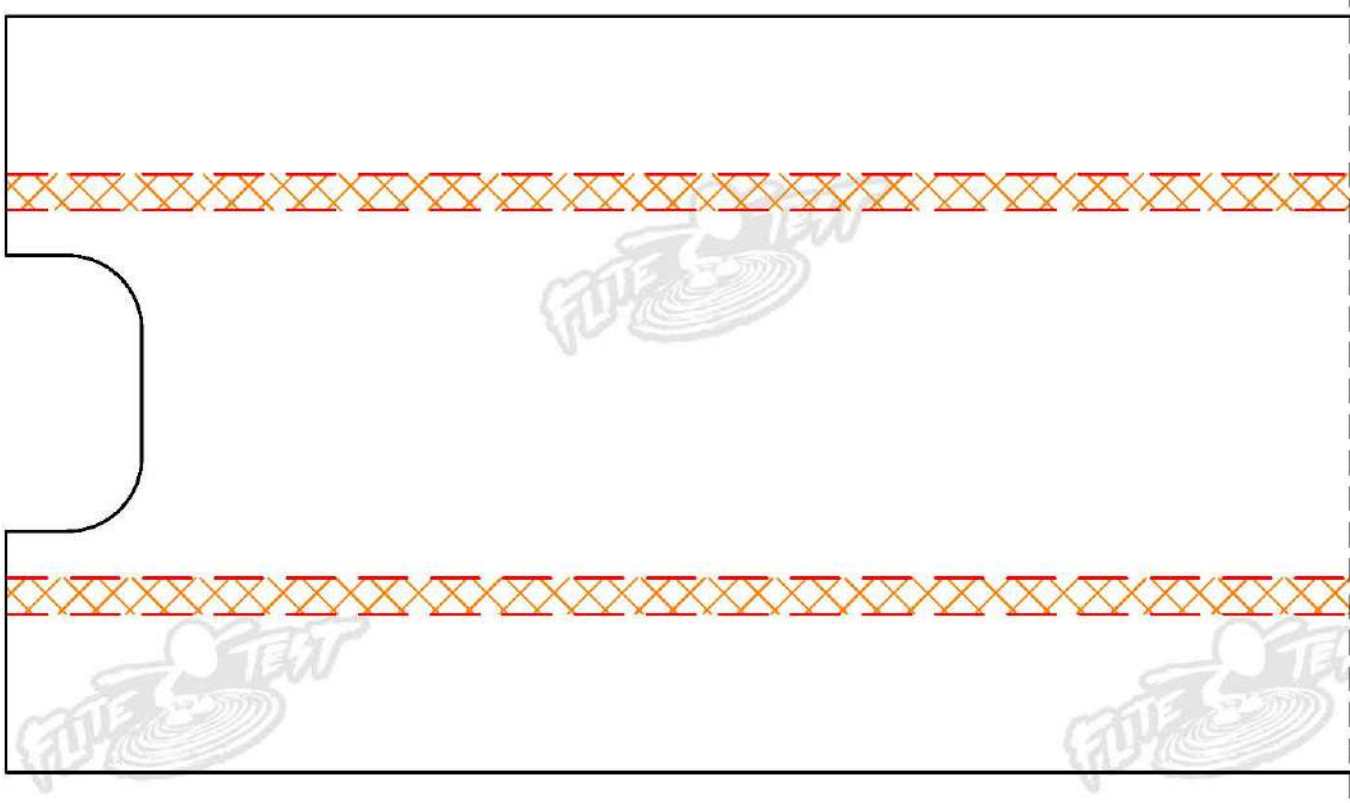
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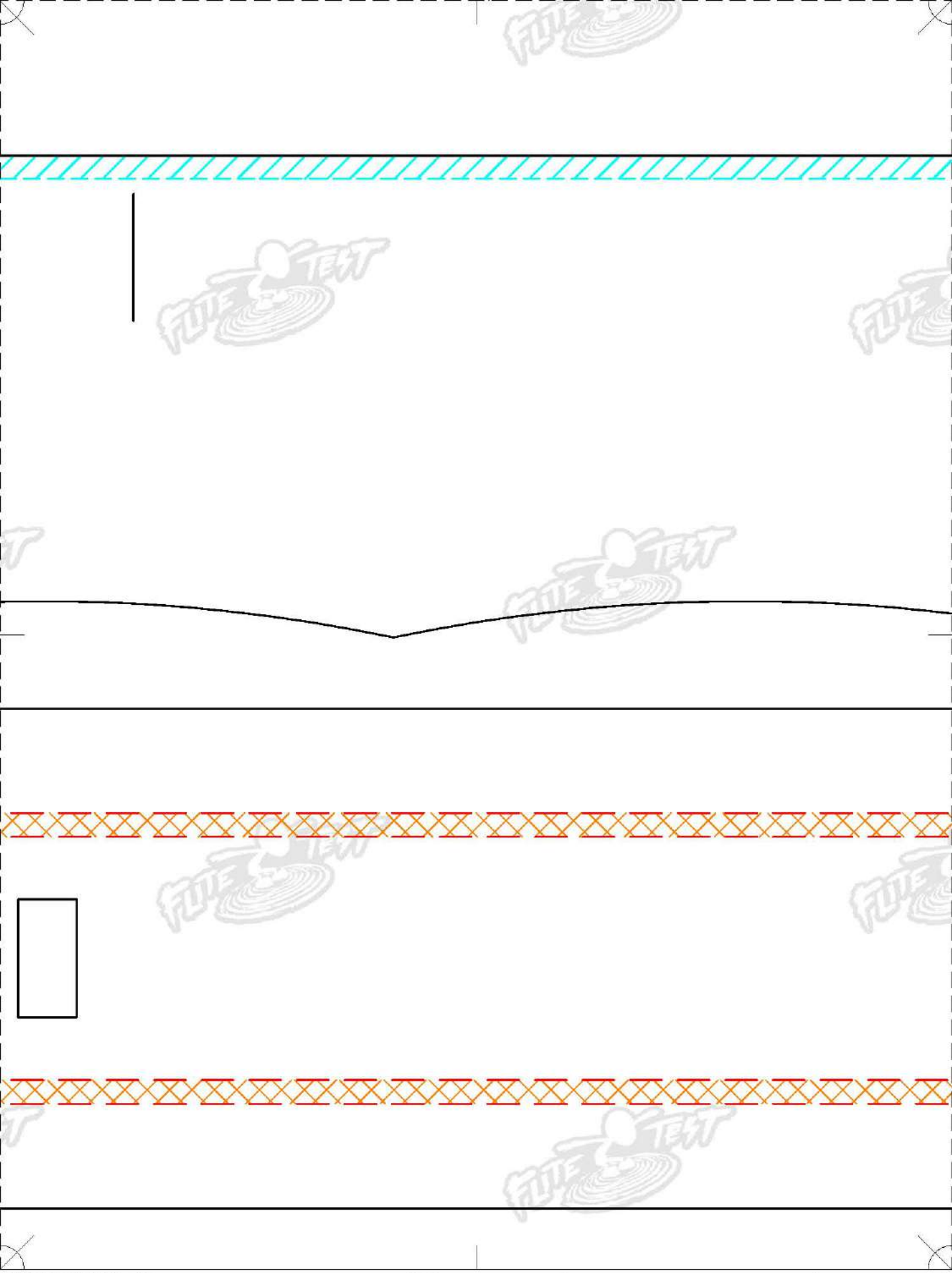


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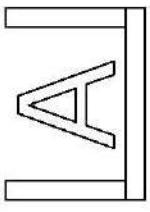
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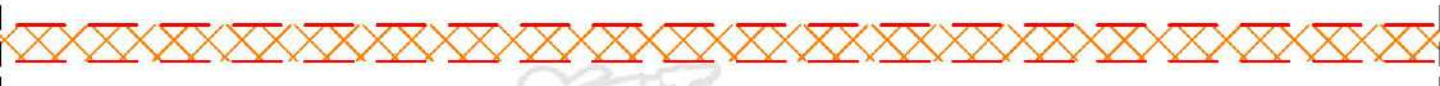


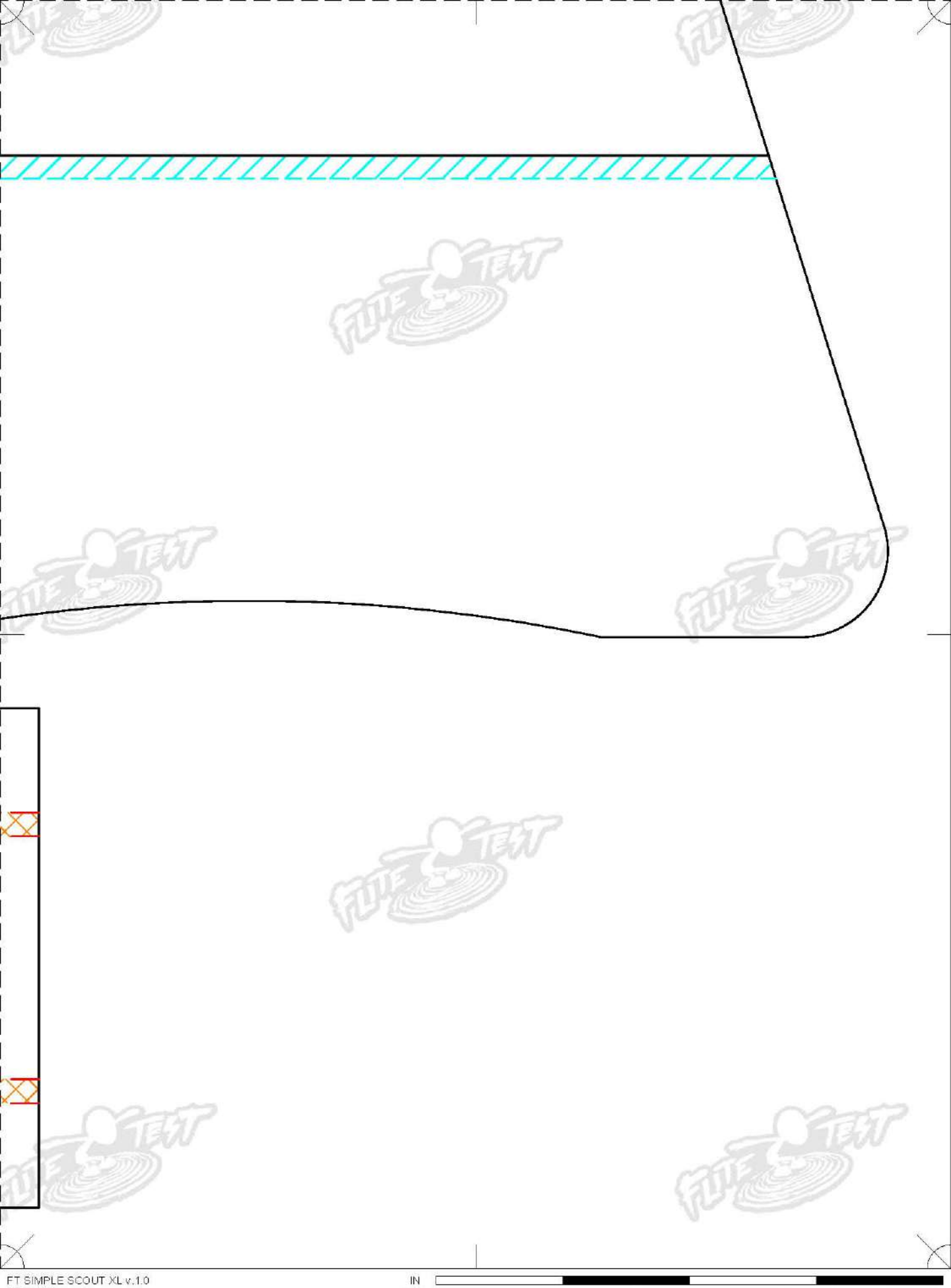


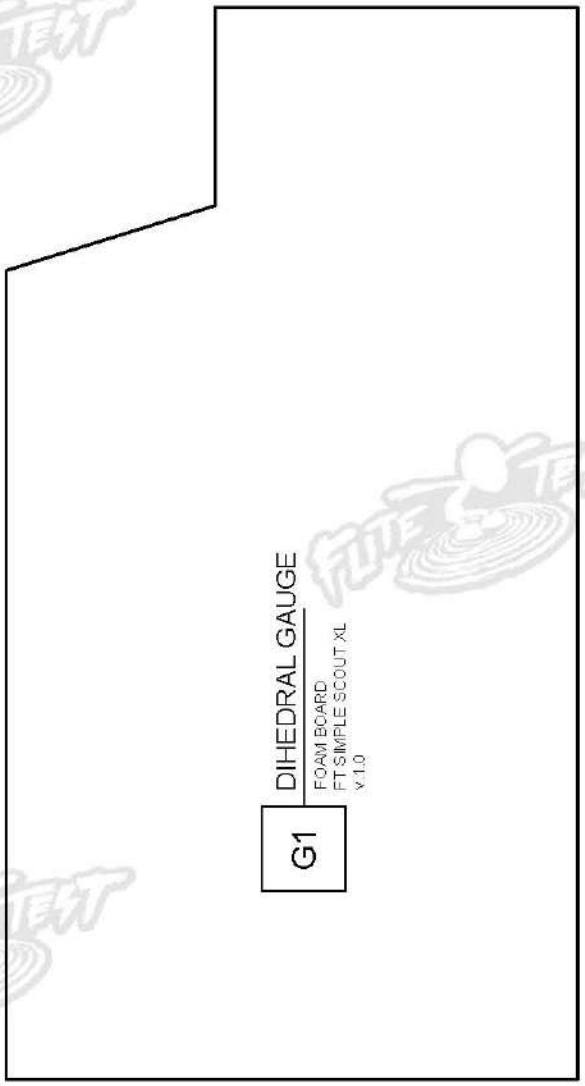
6/2 WING SPAR

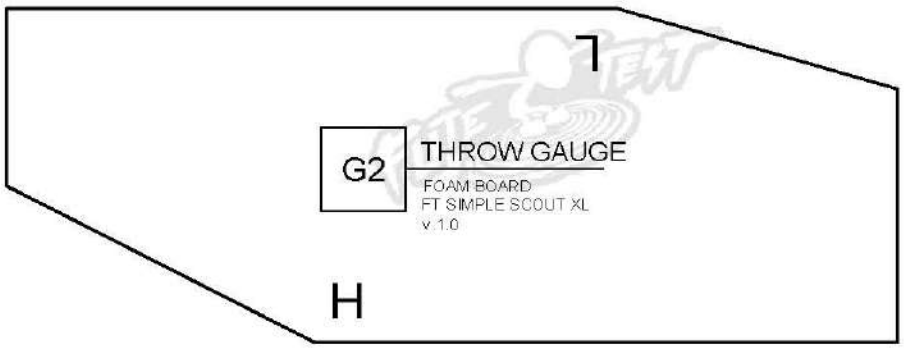
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

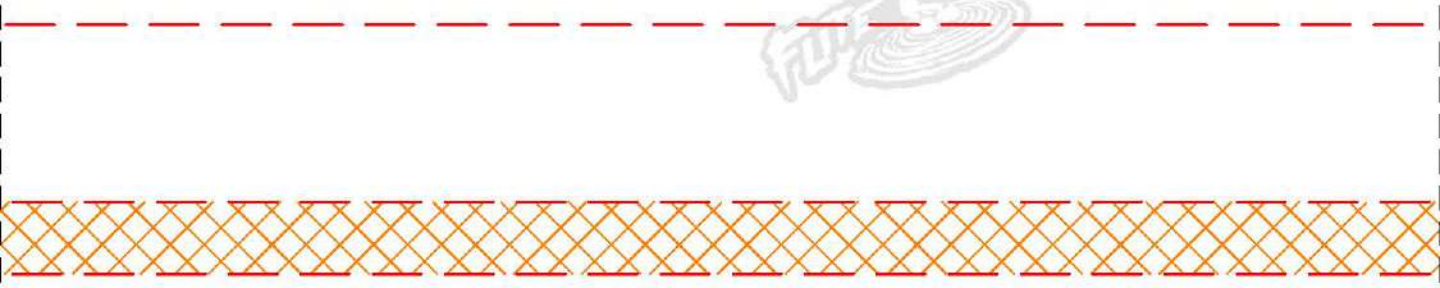




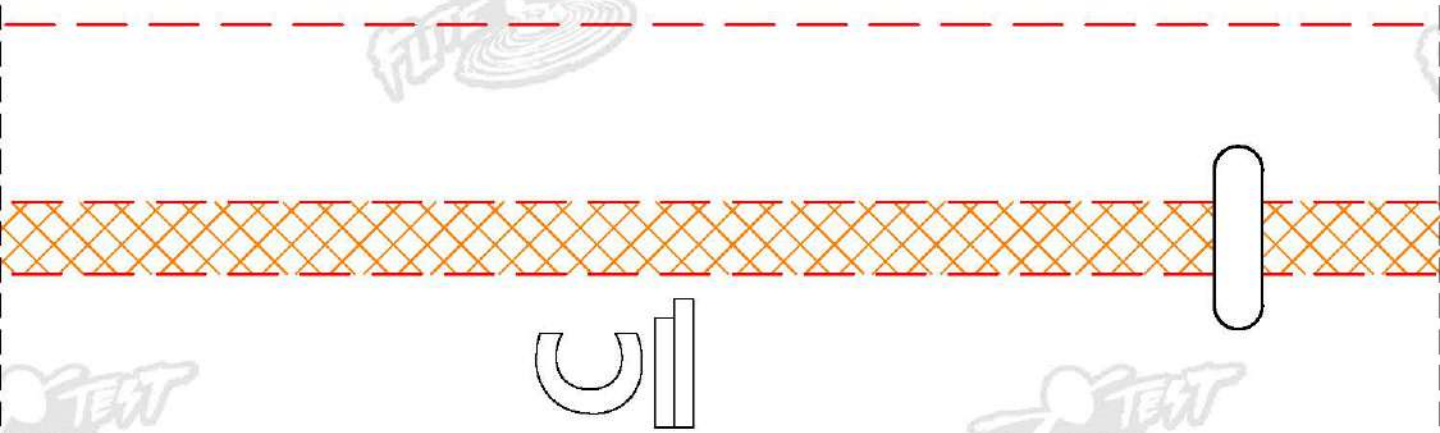



DIHEDRAL GAUGE
G1
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0


G2
THROW GAUGE
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0
H



IN
CM

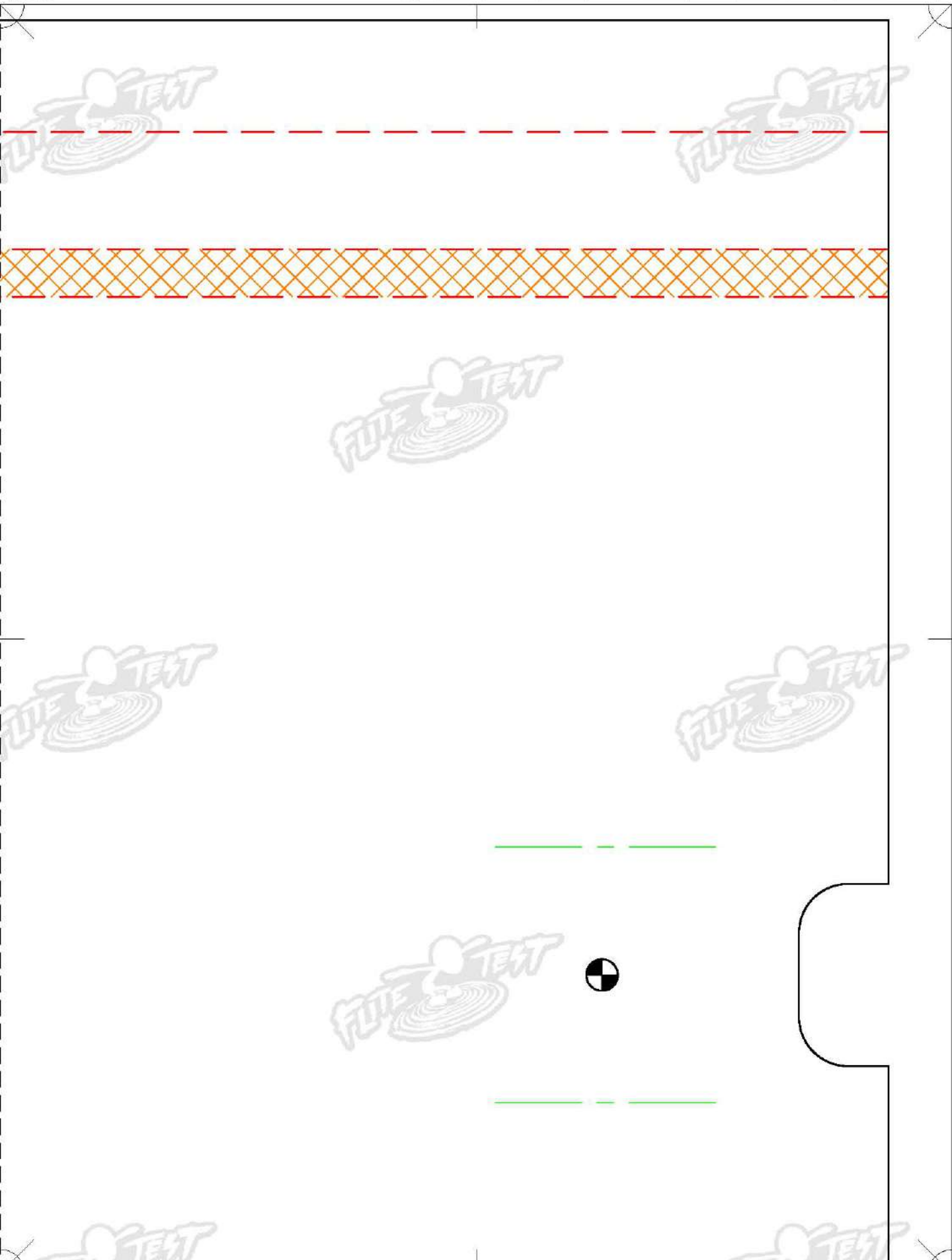




5/1 RIGHT WING BOTTOM

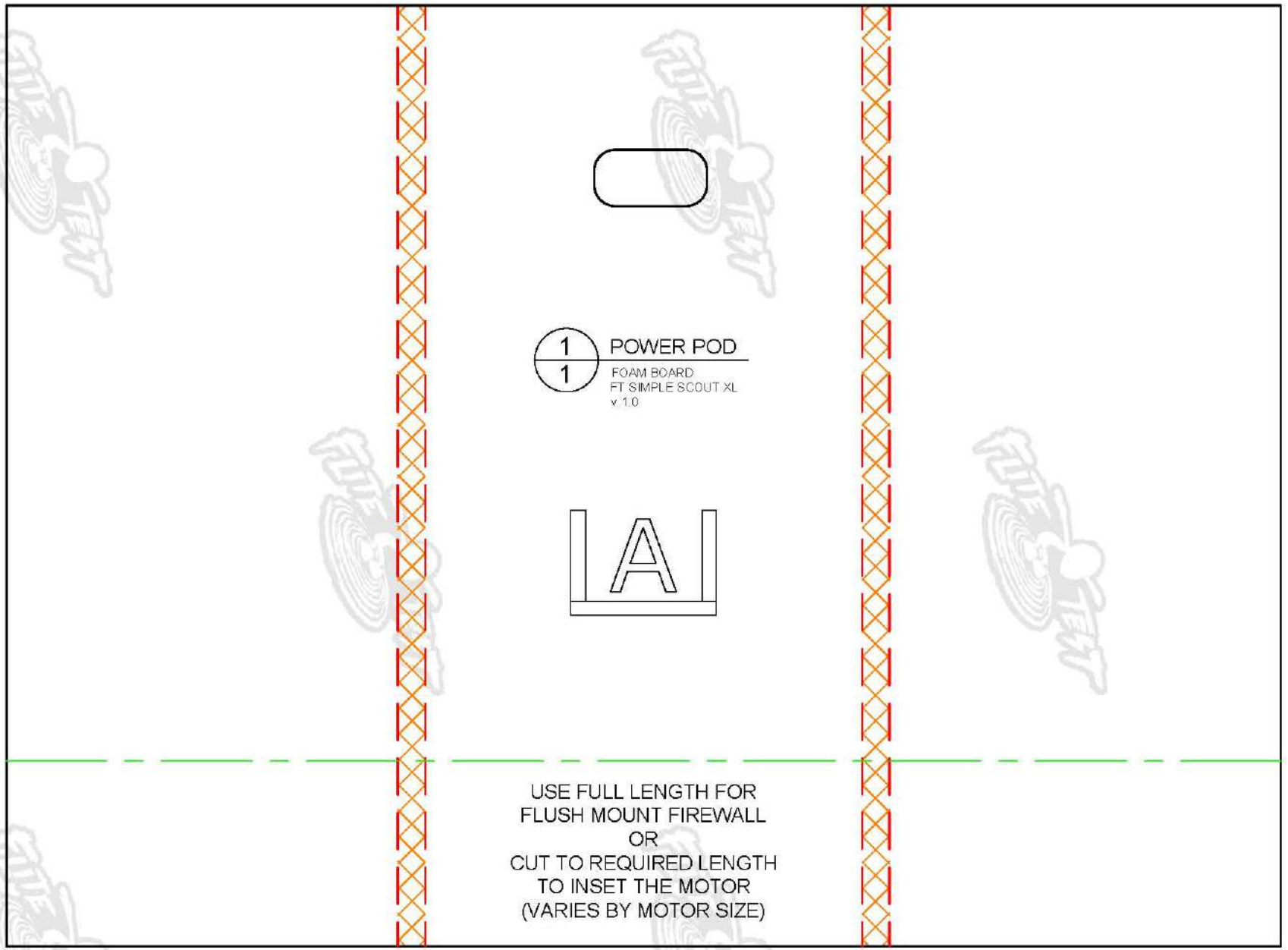
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

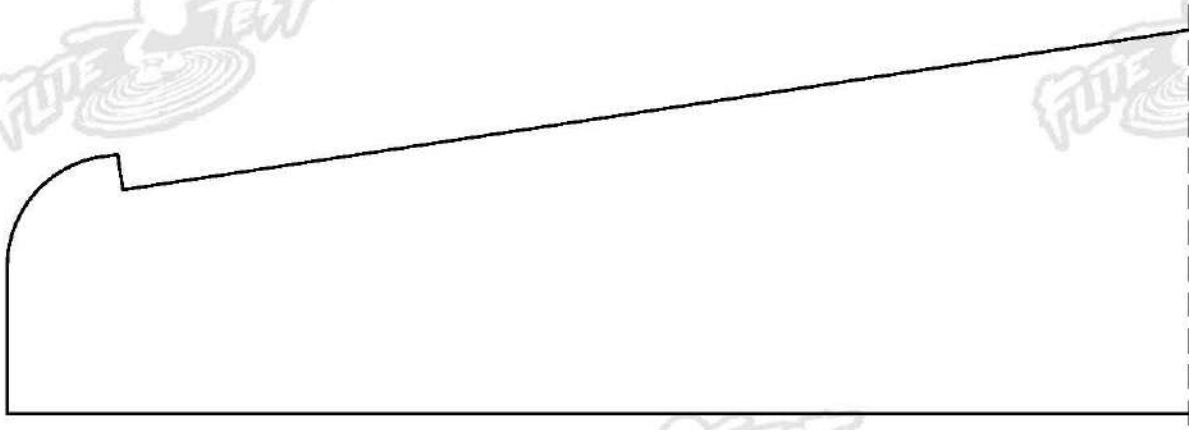
IN
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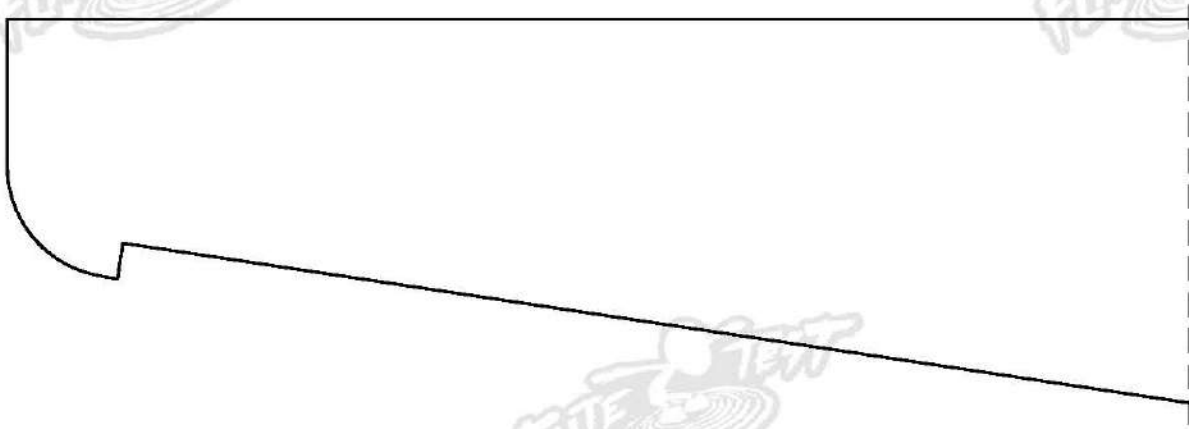


FT SIMPLE SCOUT XL v.1.0
TILE-A21

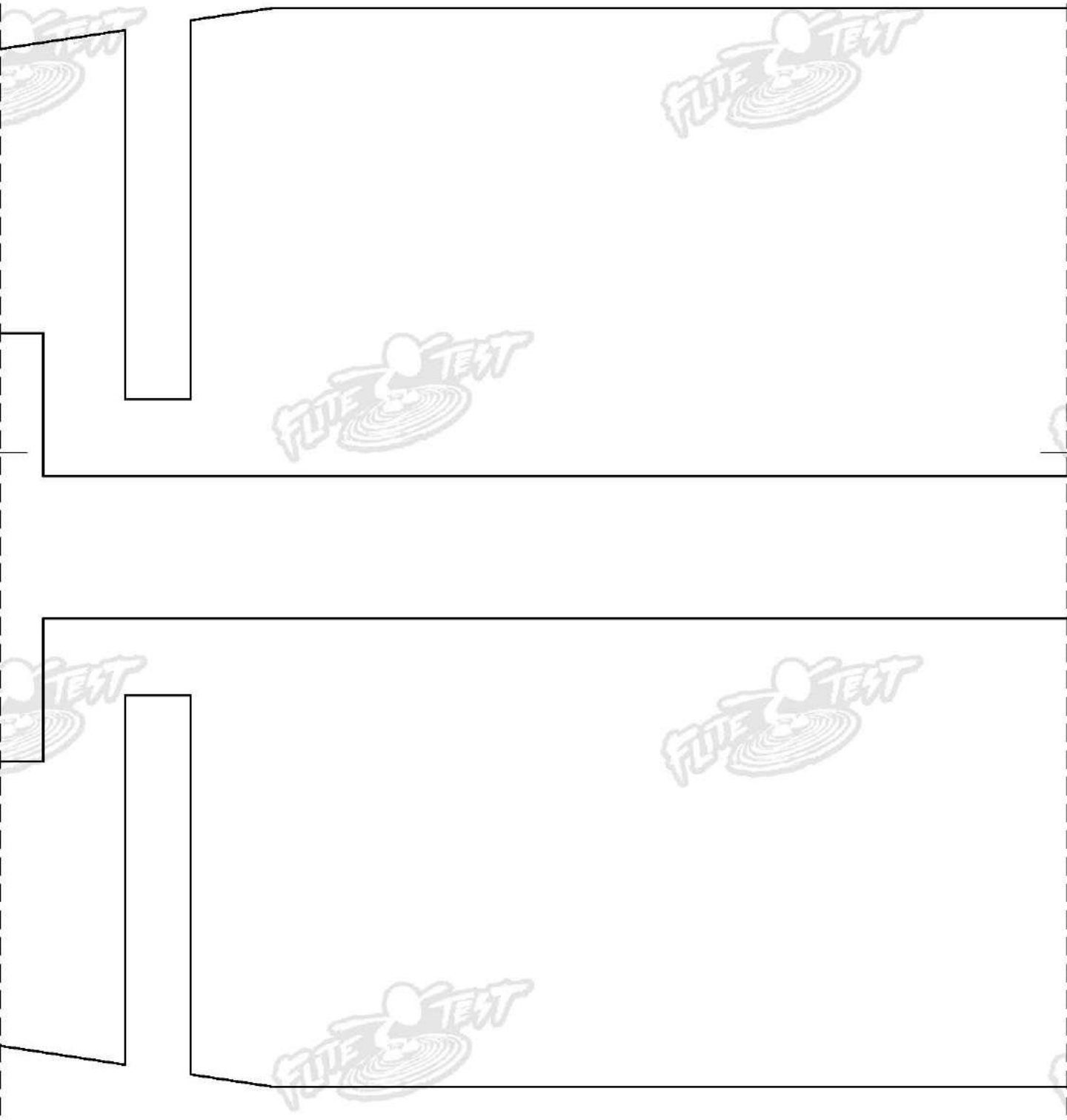
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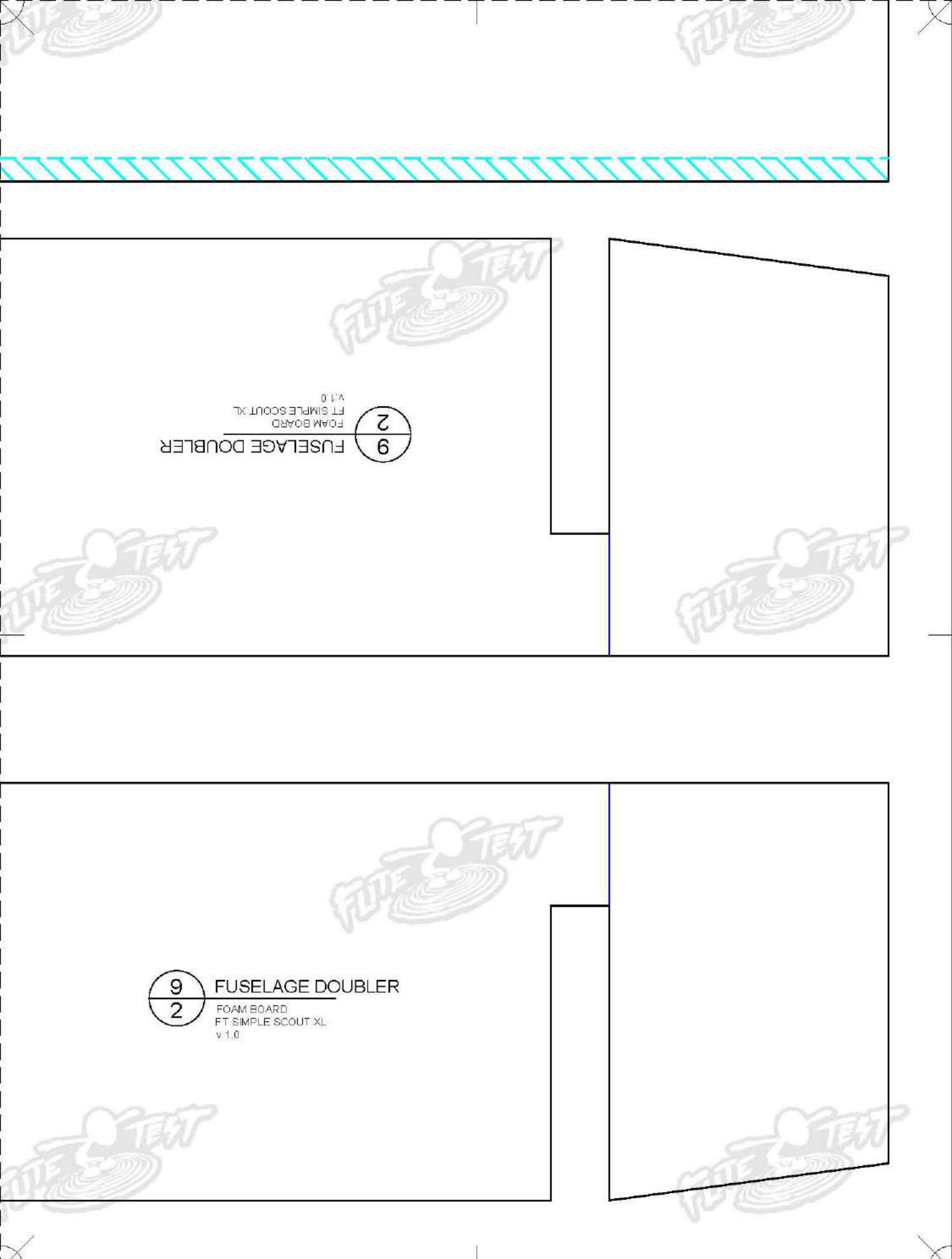






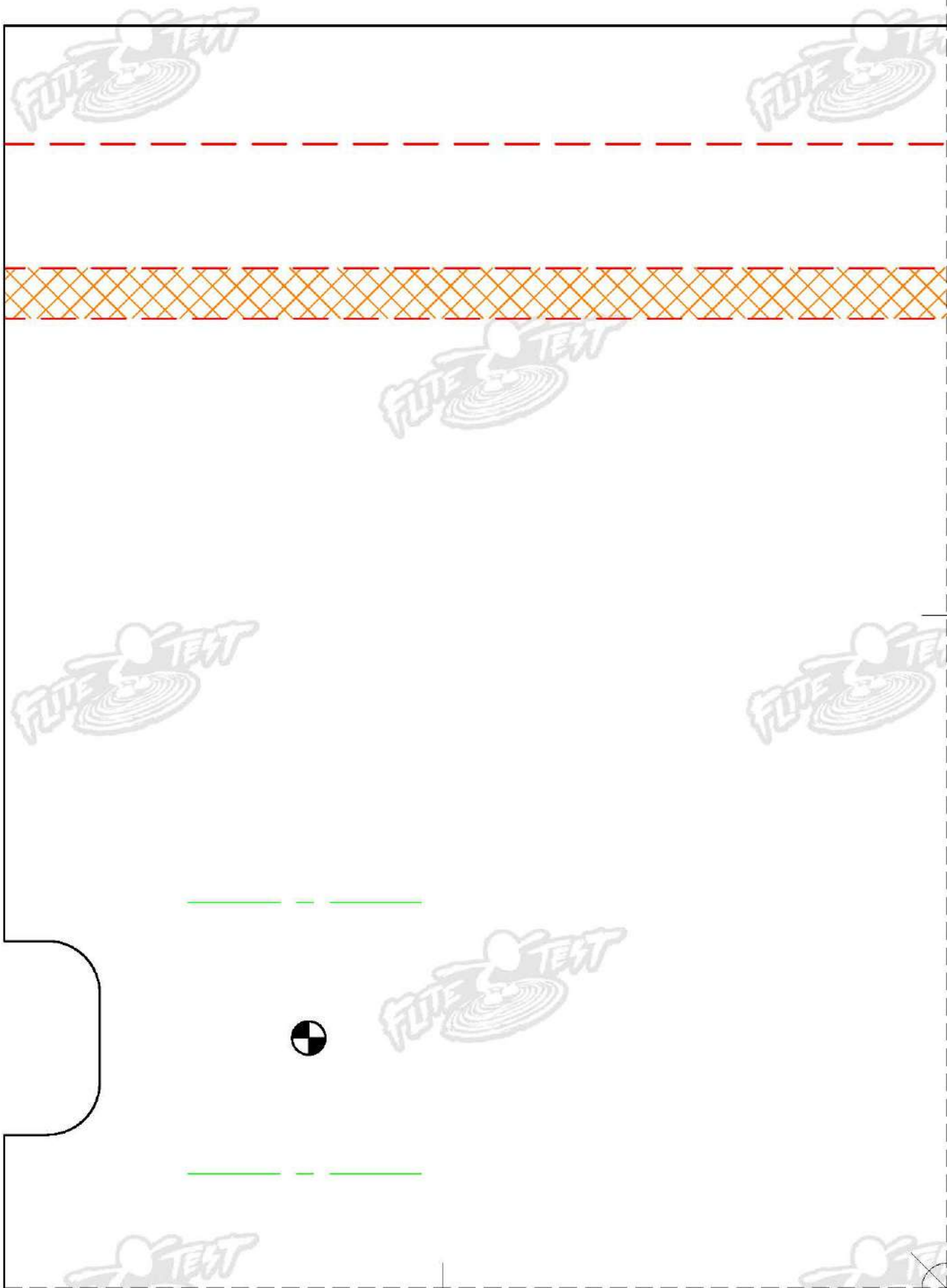
45° SINGLE BEVEL



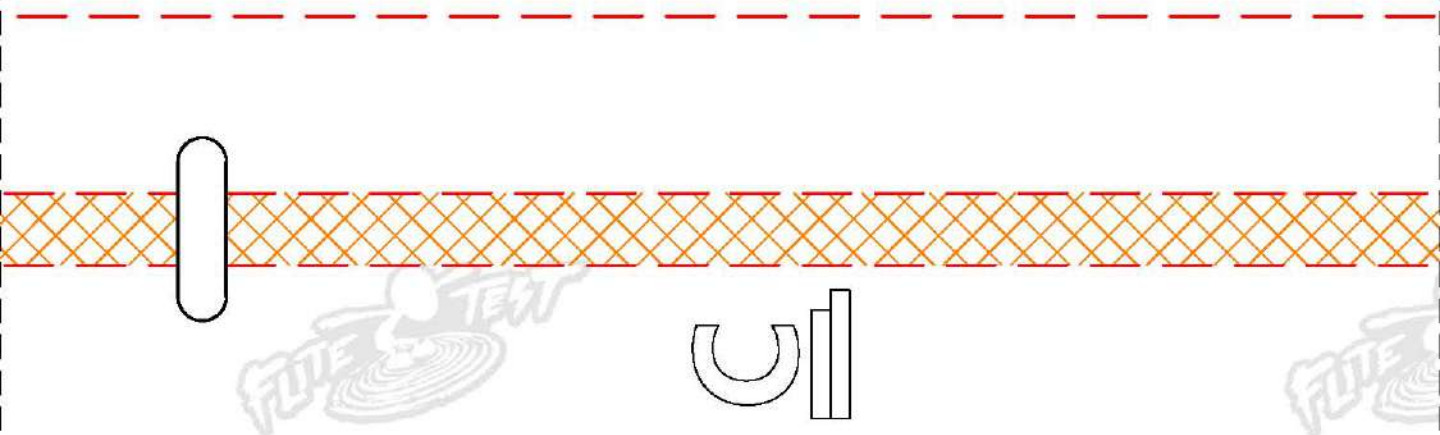

9
2
FUSELAGE DOUBLER
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0
9
2
FUSELAGE DOUBLER
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

IN
CM

IN
CM



IN
CM

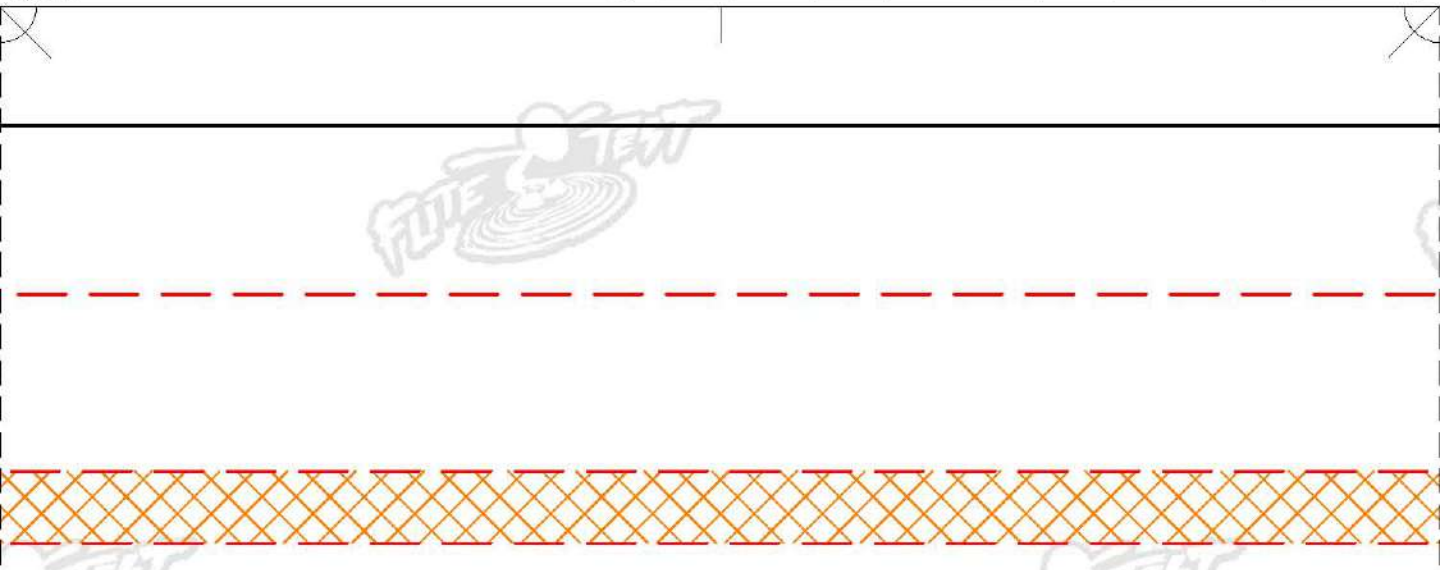


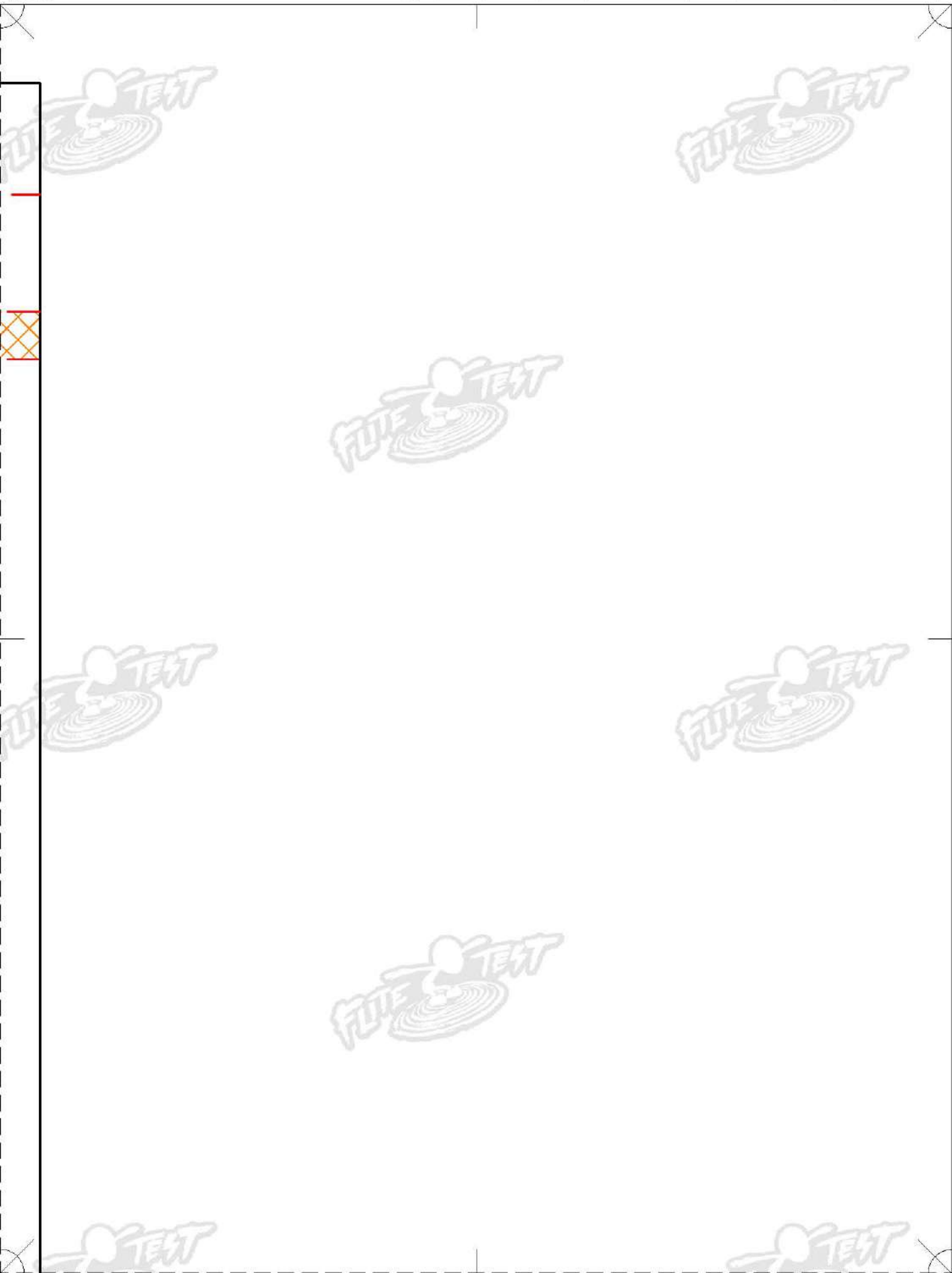
3/1 LEFT WING BOTTOM

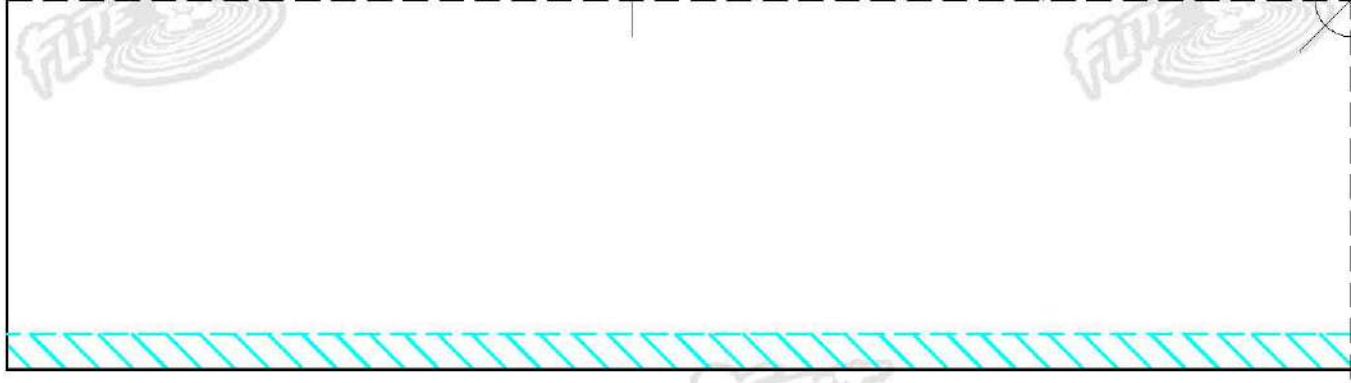
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

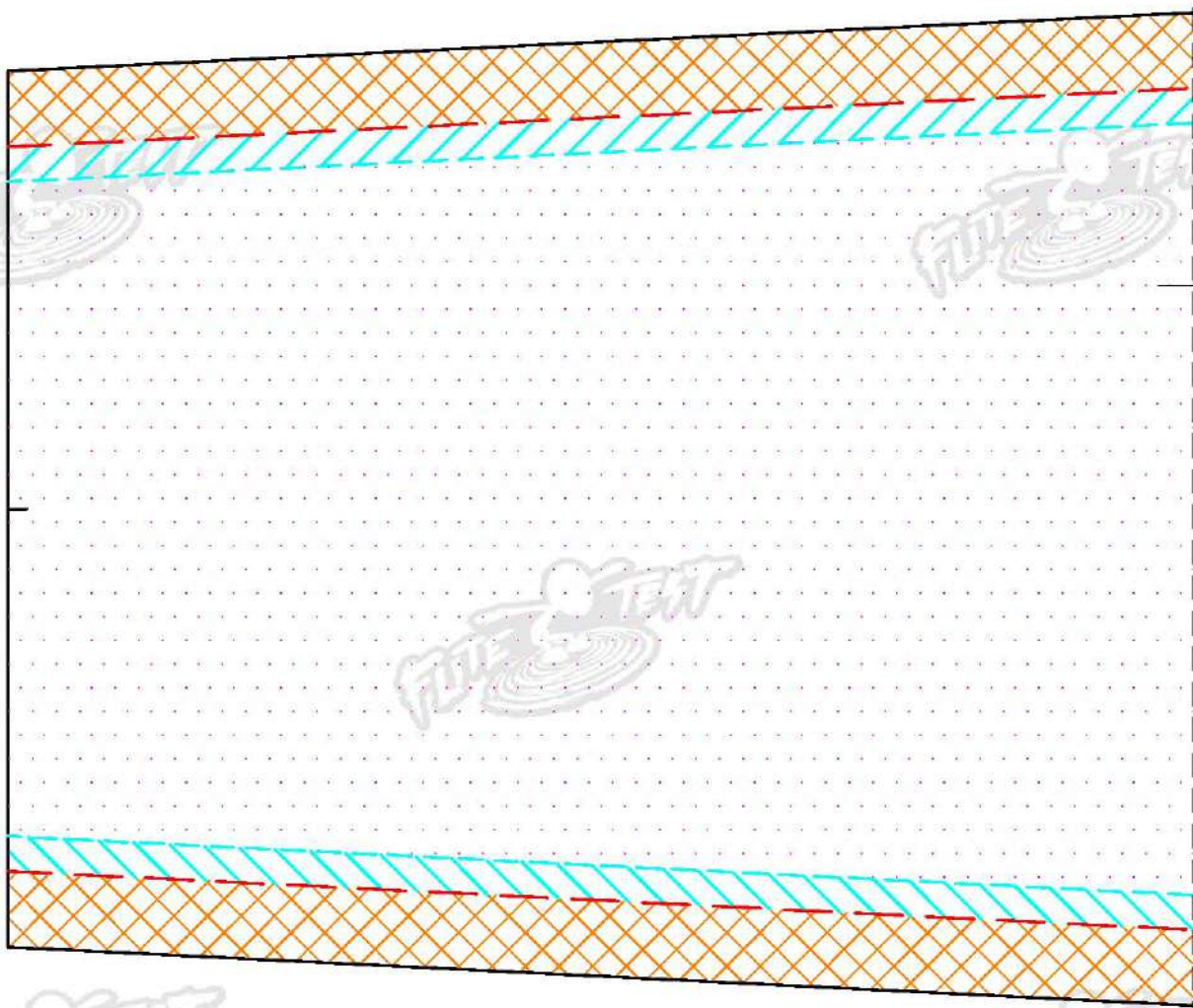


IN
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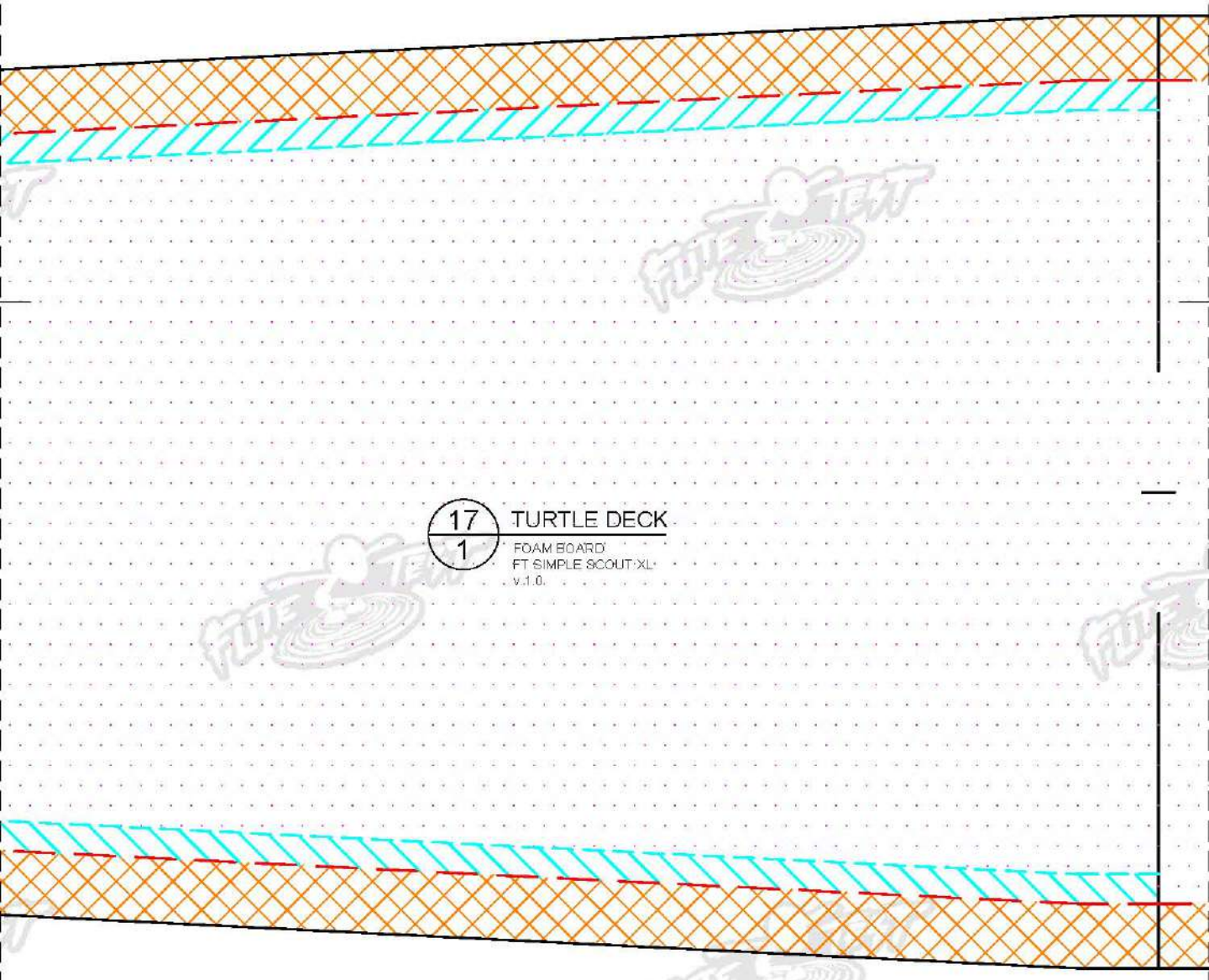



IN
CM



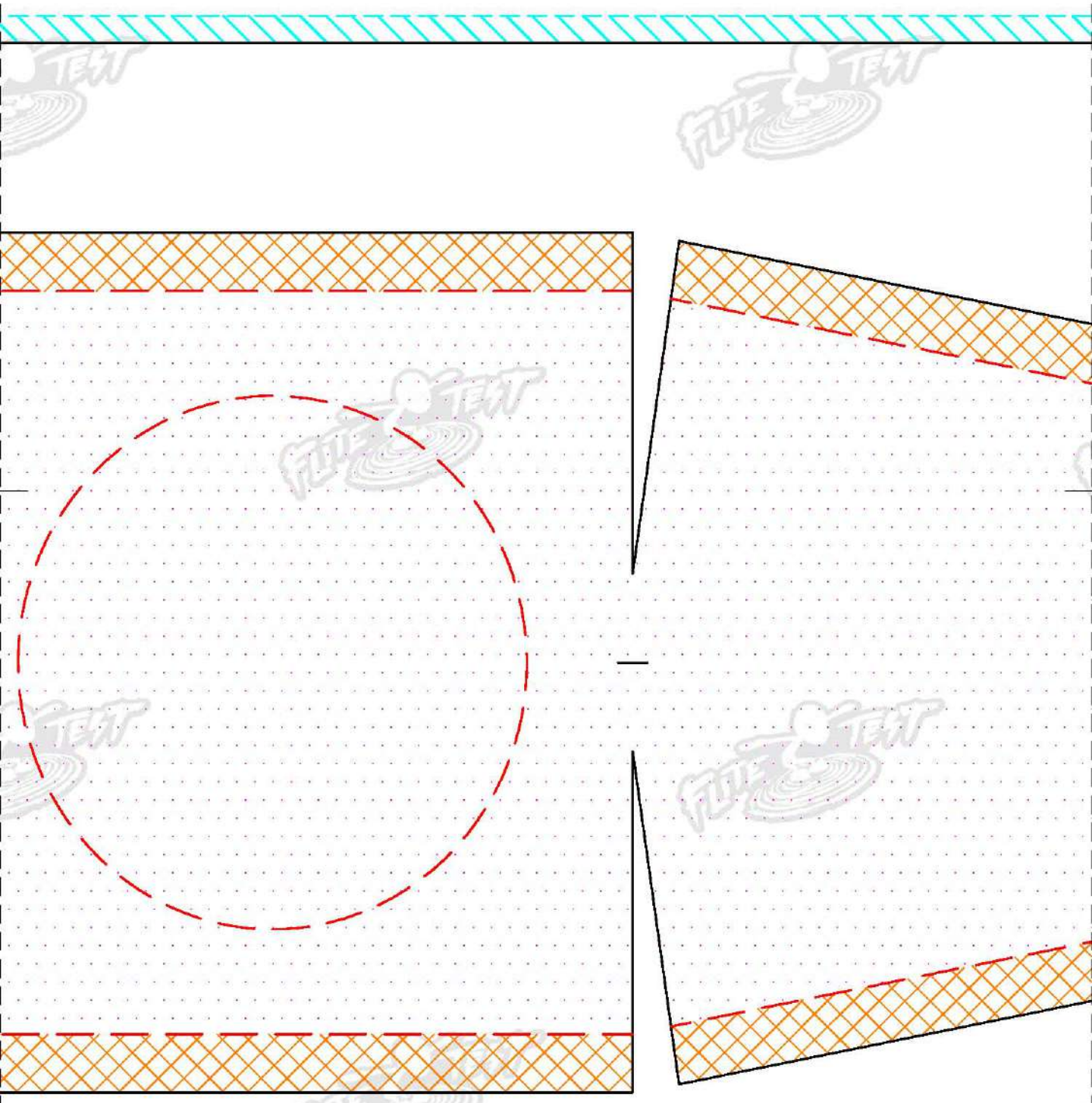


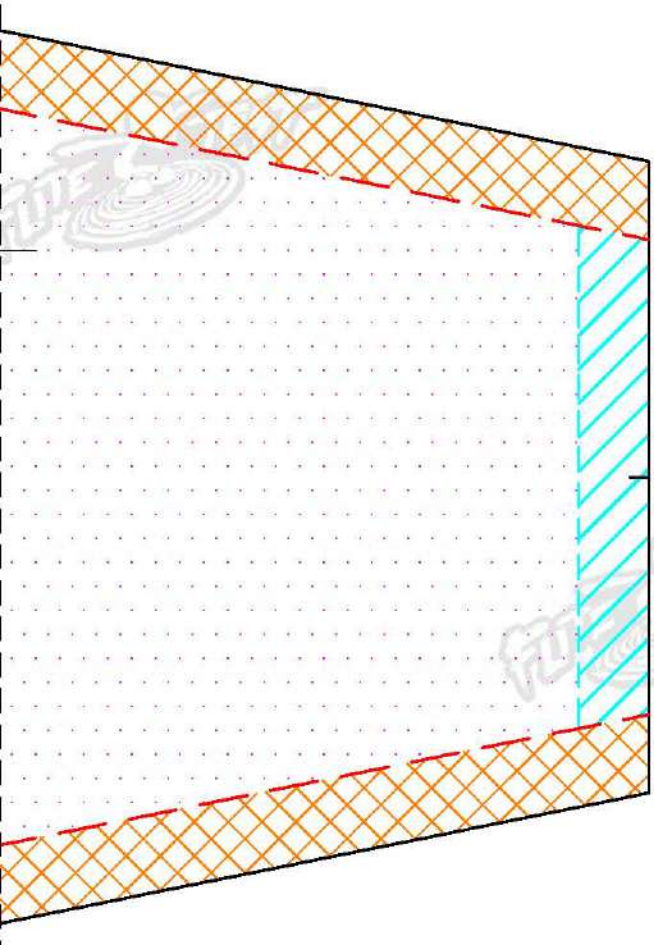
45° SINGLE BEVEL



17/1 TURTLE DECK

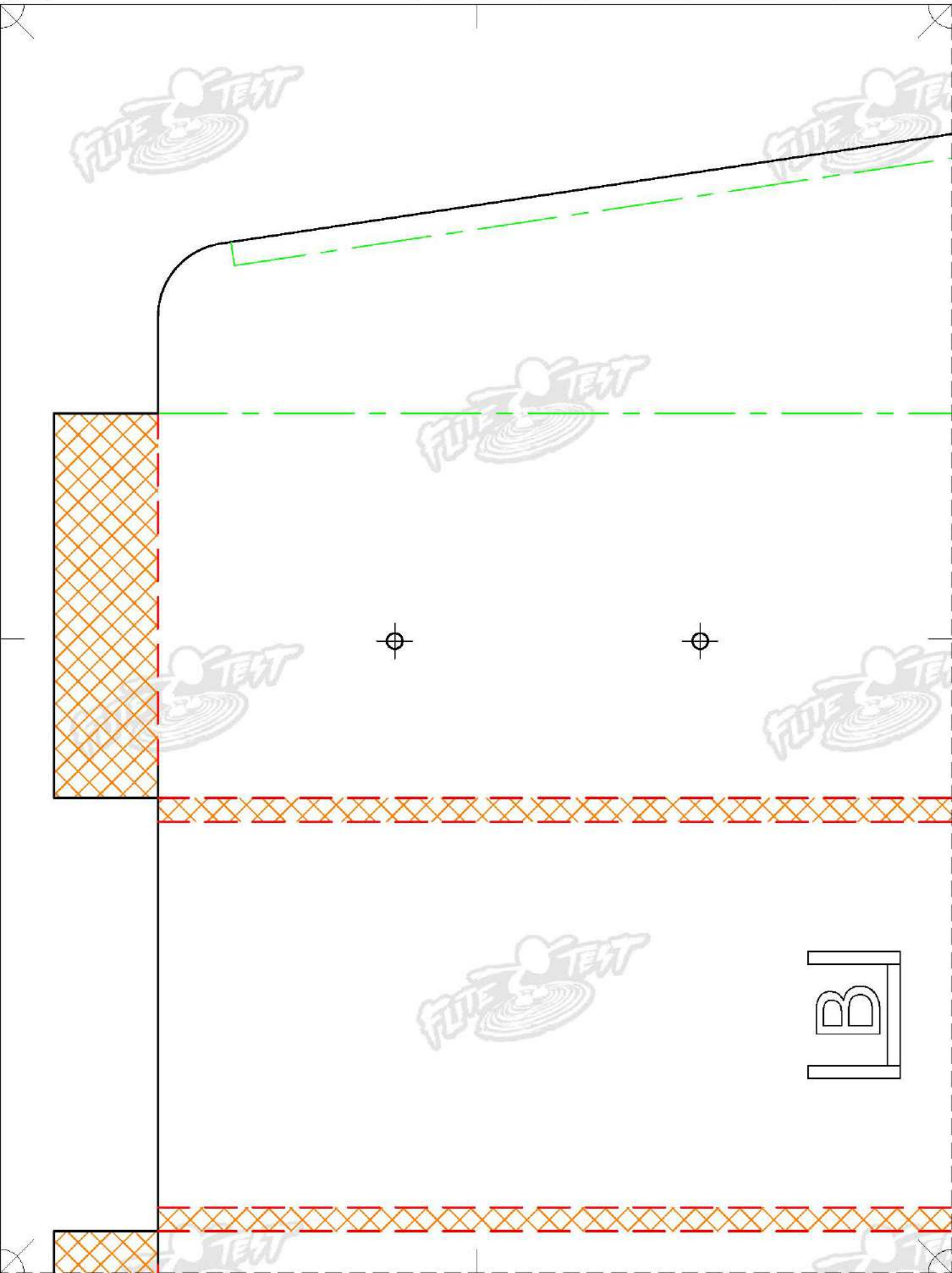
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0.



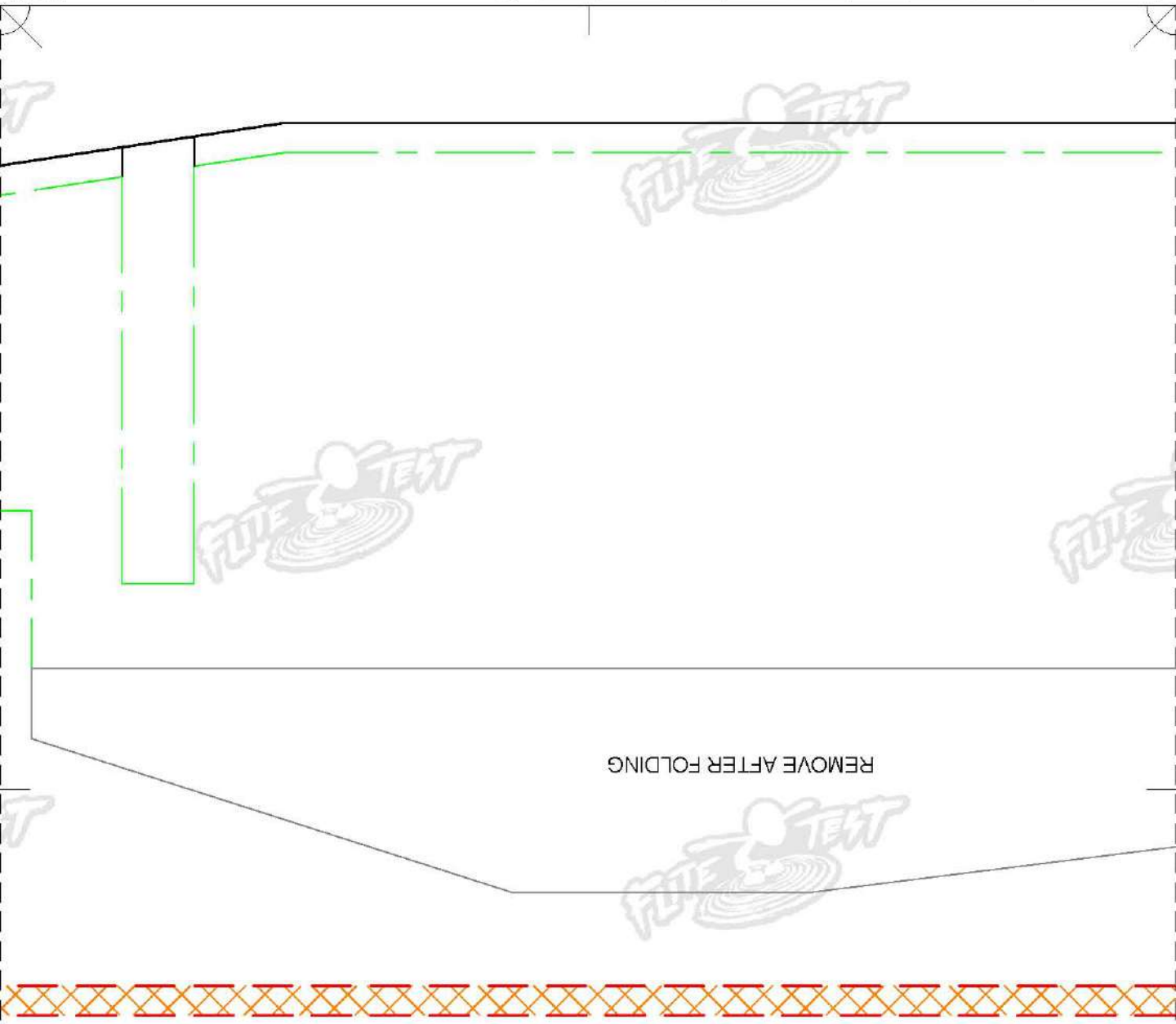


FT SIMPLE SCOUT XL v.1.0
TILE-A33

IN
CM



IN
CM

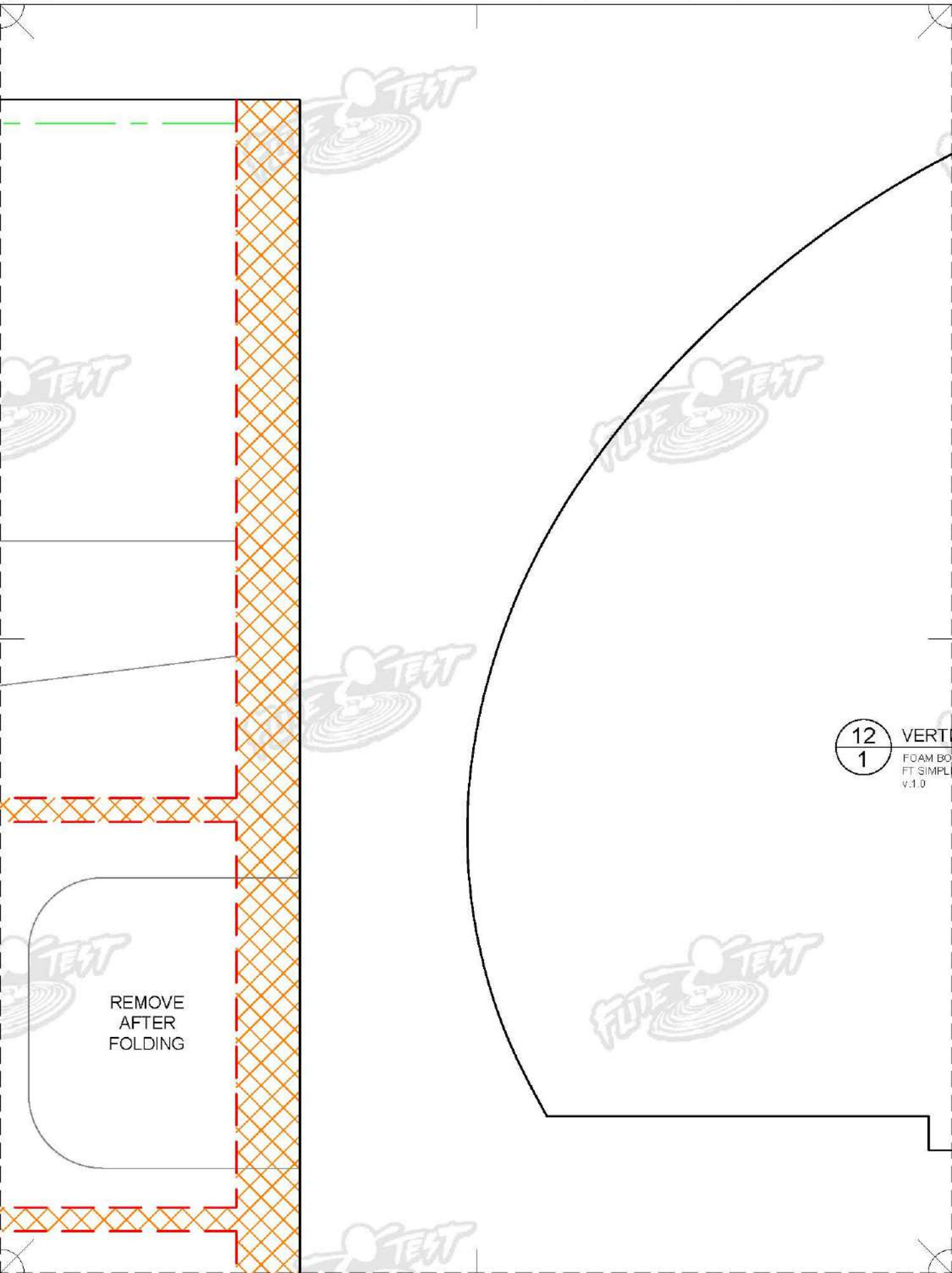


7/1 FUSELAGE FRONT

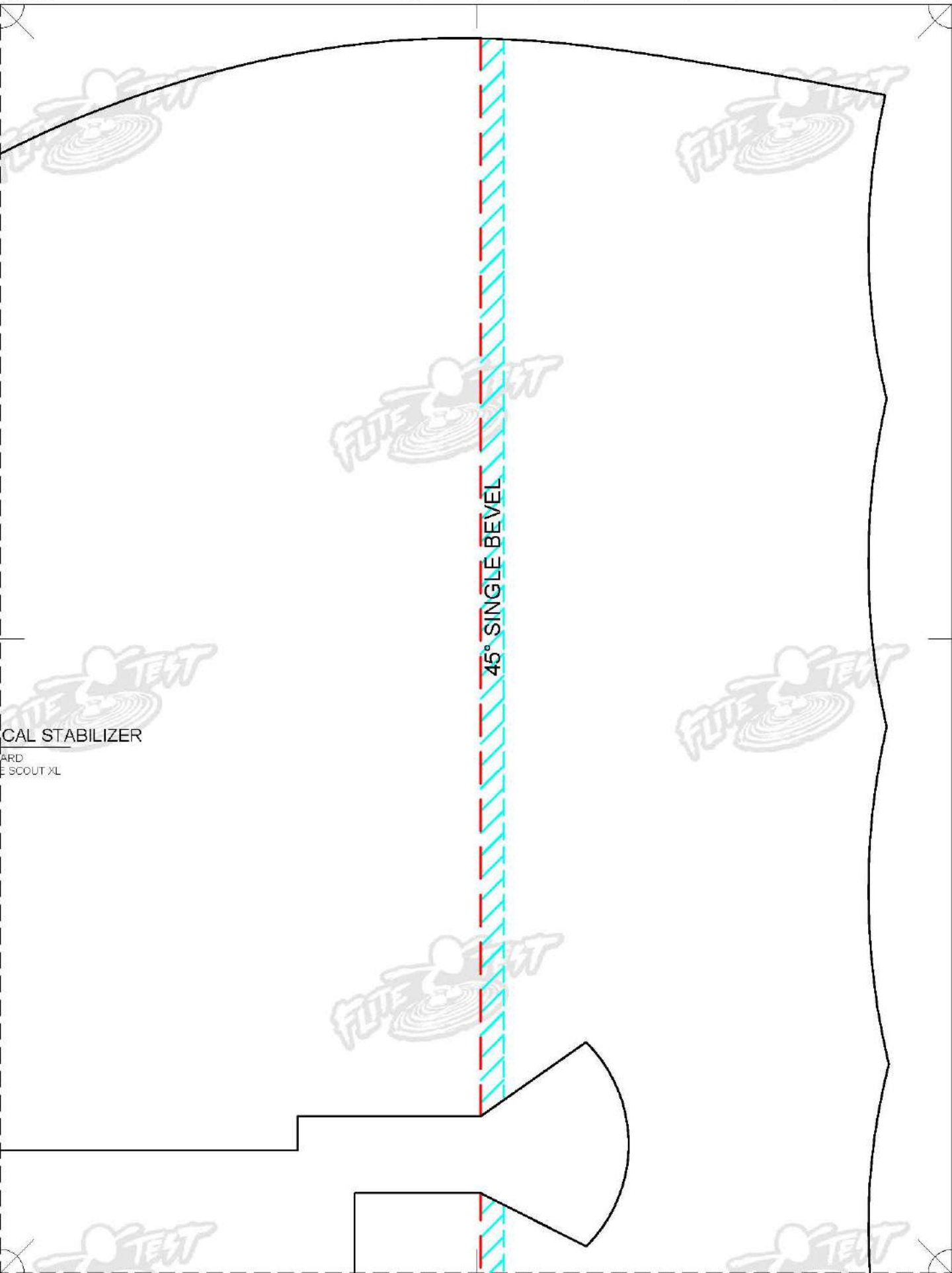
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0



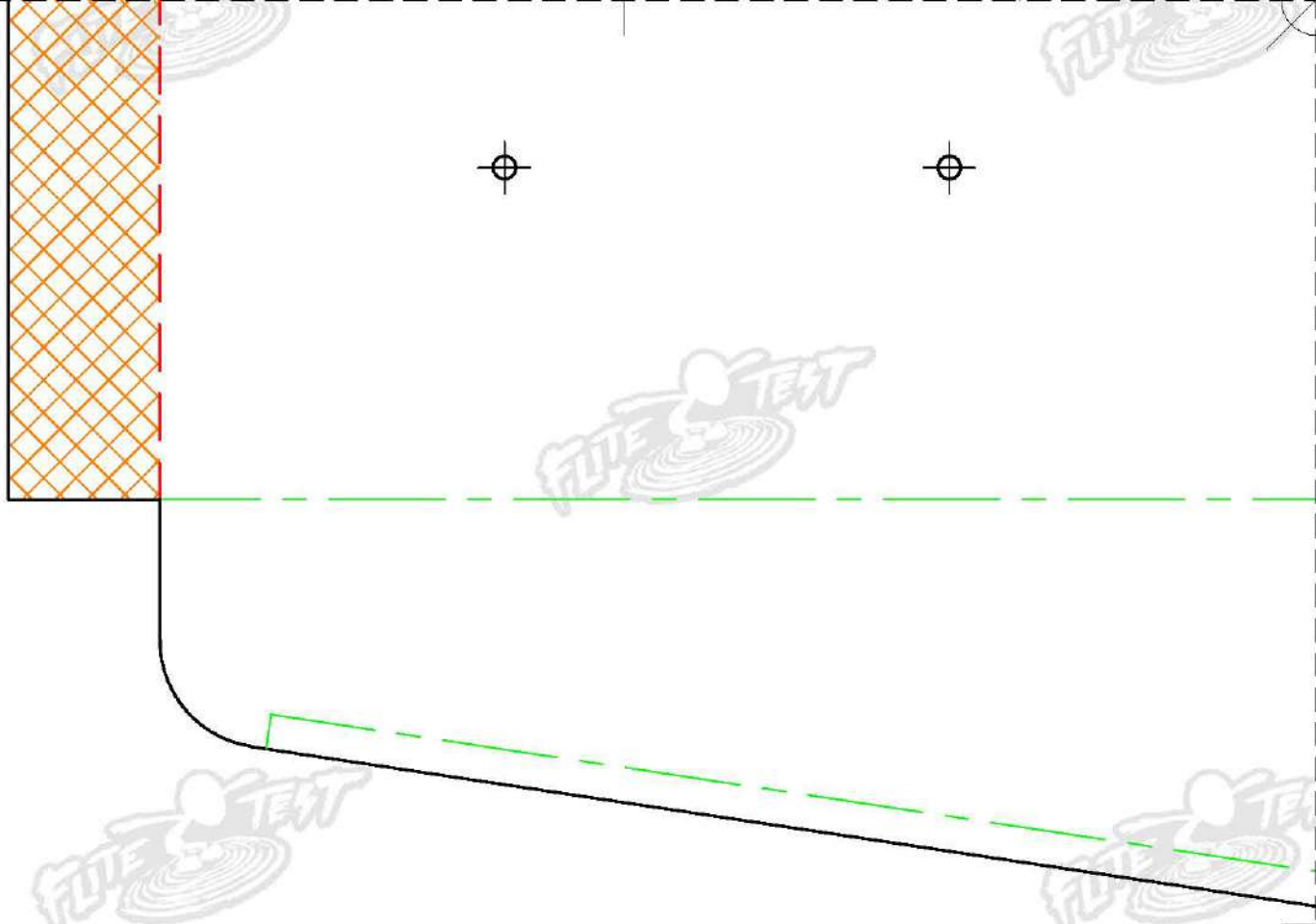
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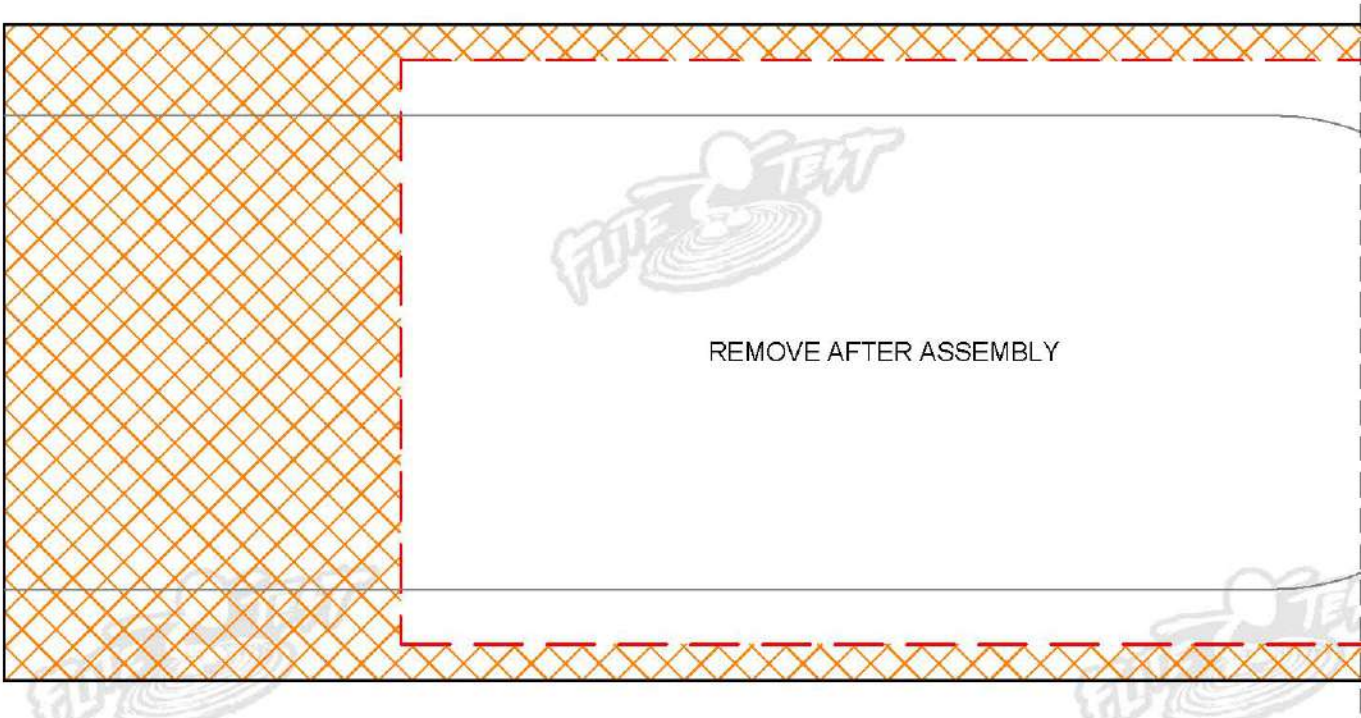


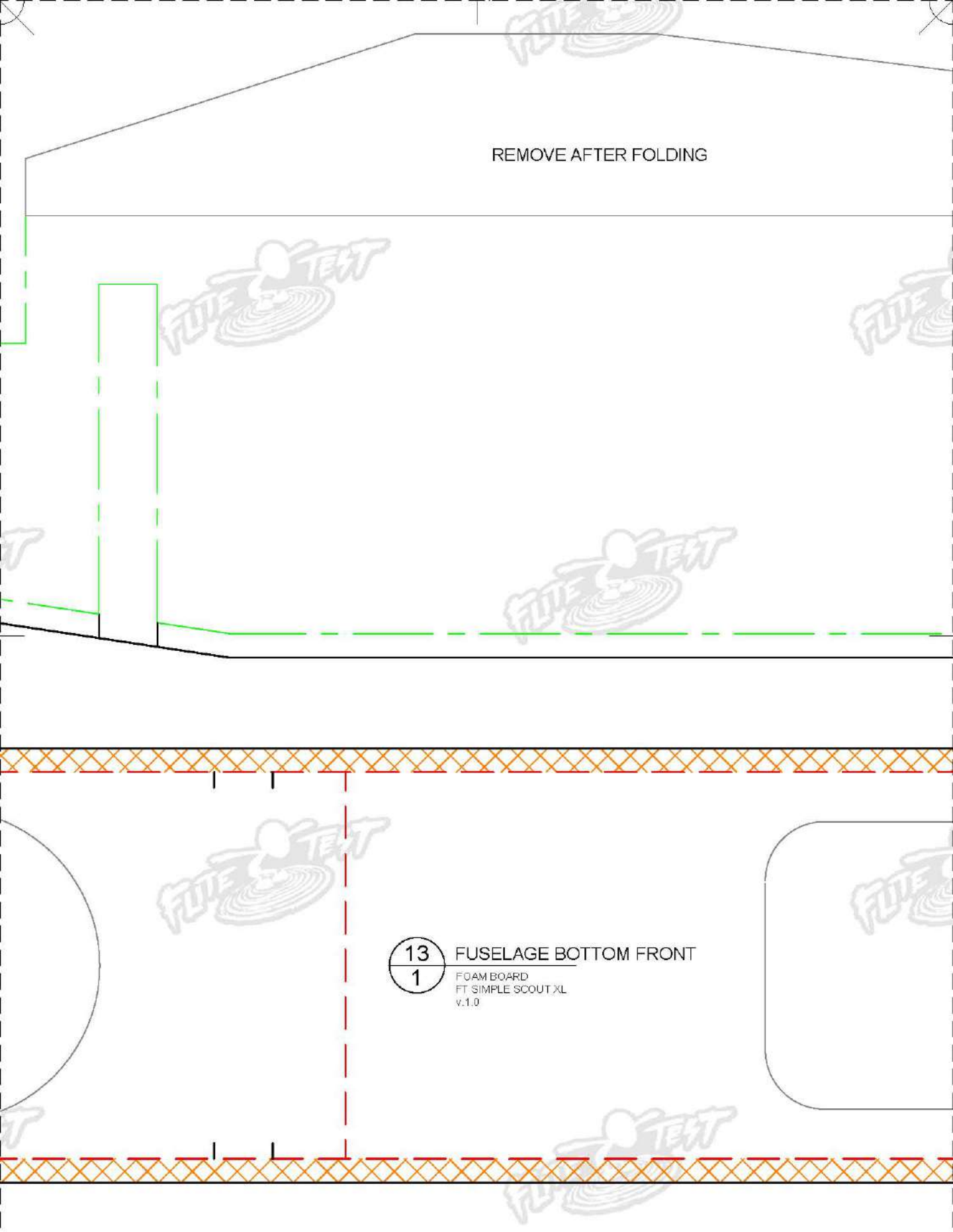
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CM



CAL STABILIZER
ARD
E SCOUT XL

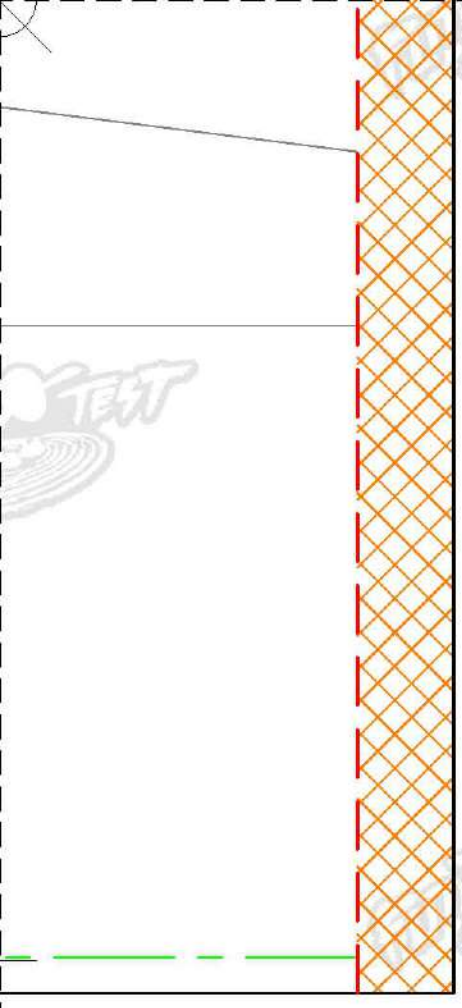


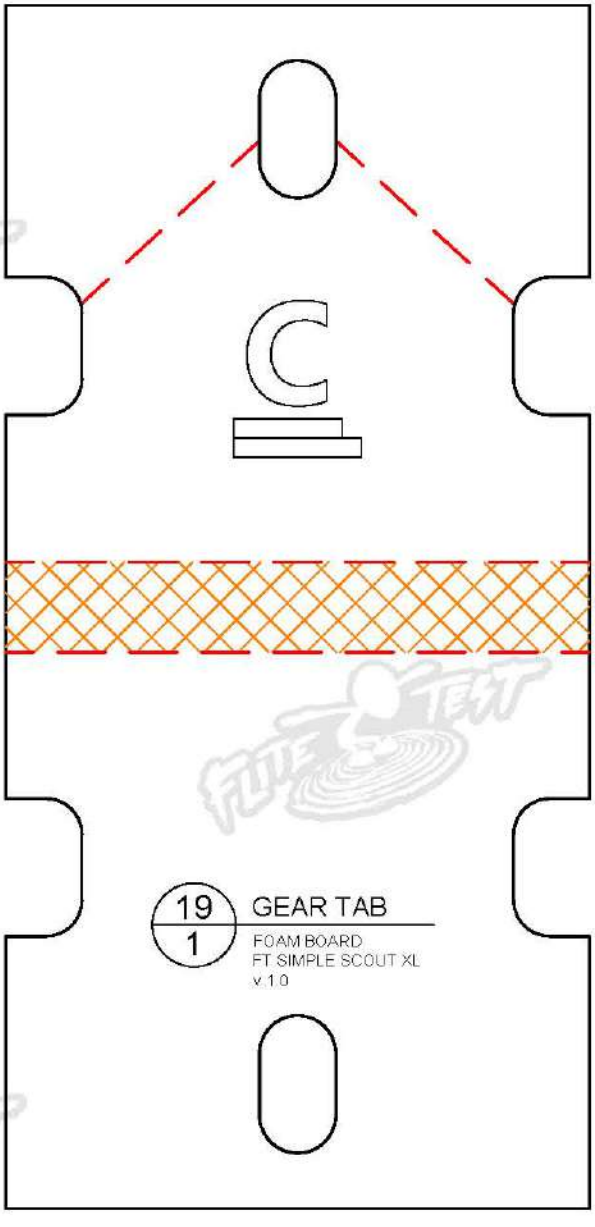

REMOVE AFTER ASSEMBLY

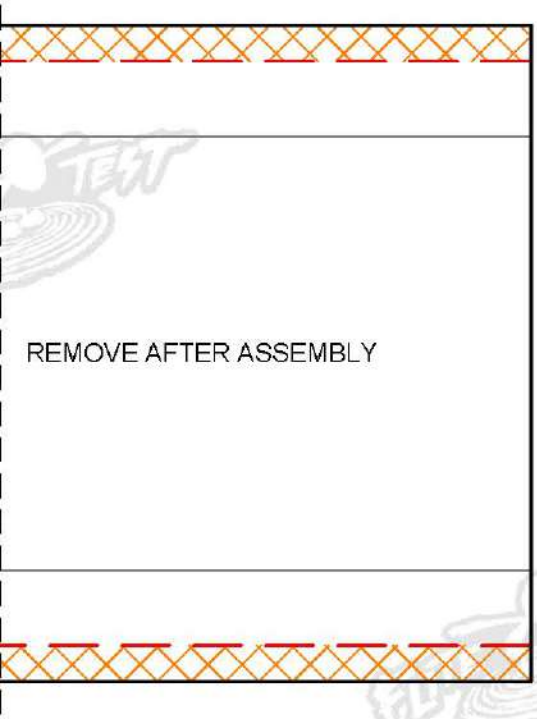


13/1 FUSELAGE BOTTOM FRONT

FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

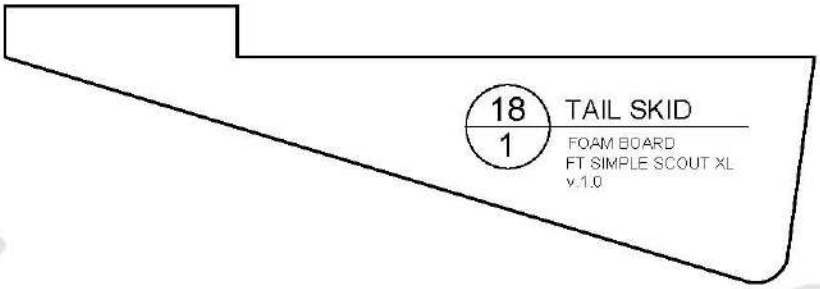


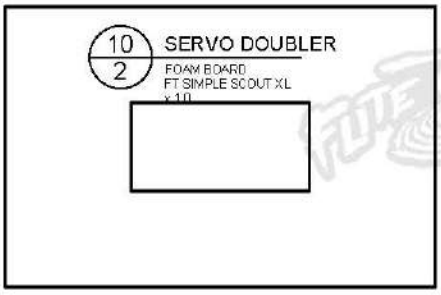


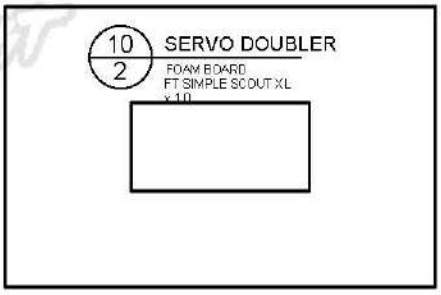


19/1 GEAR TAB
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

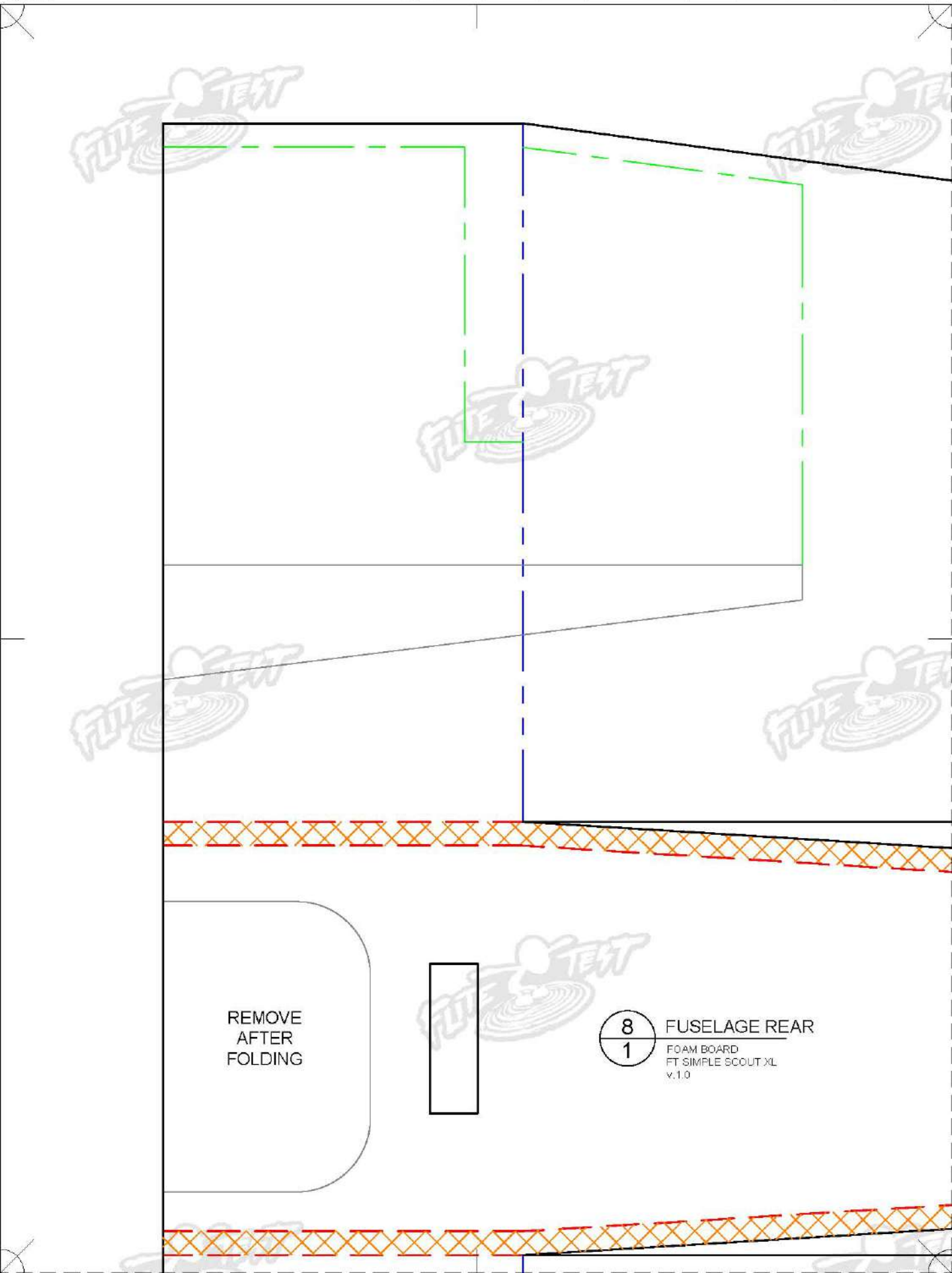



18
1
TAIL SKID
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0


10
2
SERVO DOUBLER
FOAM BOARD
FT SIMPLE SCOUT XL
x 1.0


10
2
SERVO DOUBLER
FOAM BOARD
FT SIMPLE SCOUT XL
x 1.0

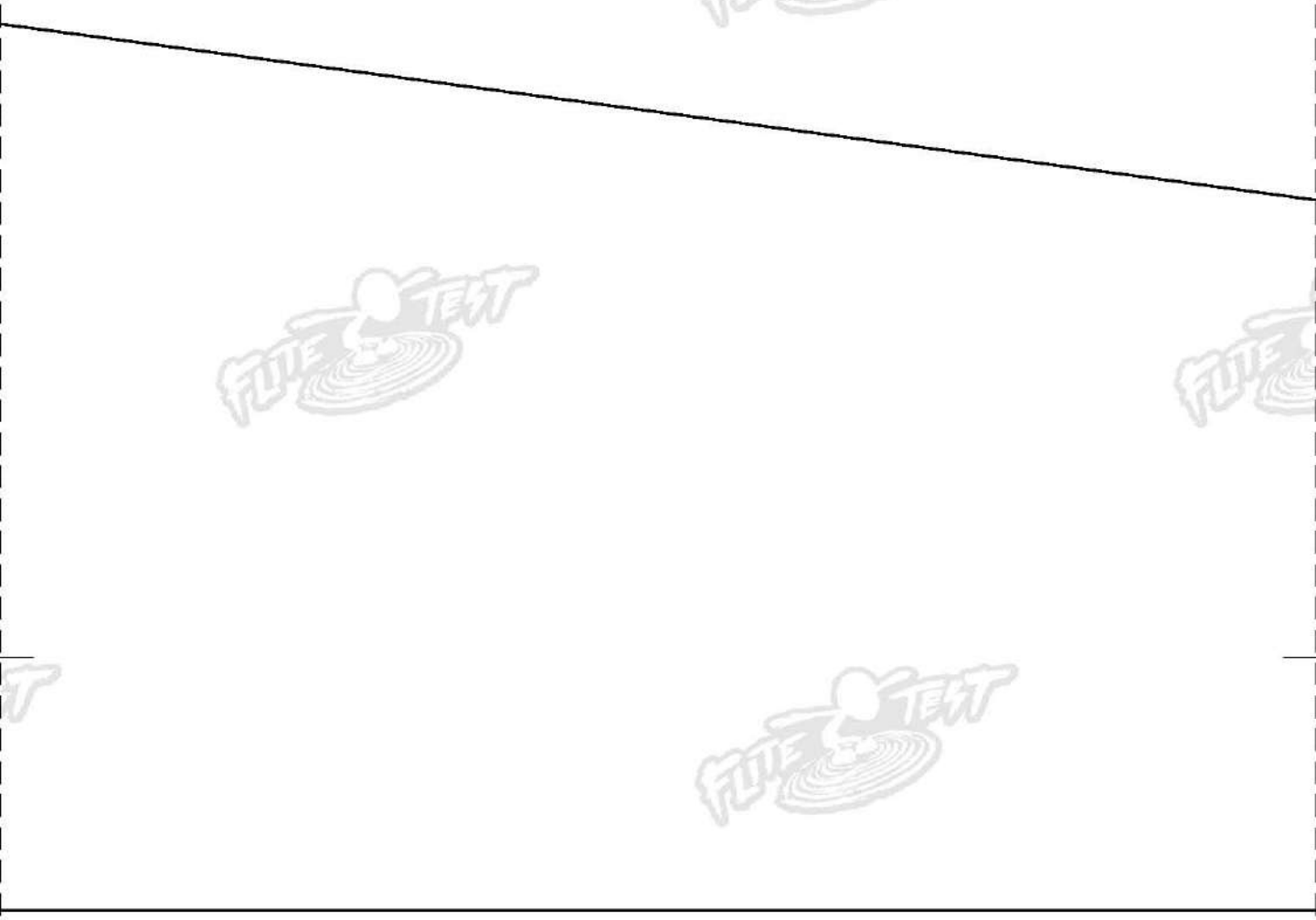
IN
CM

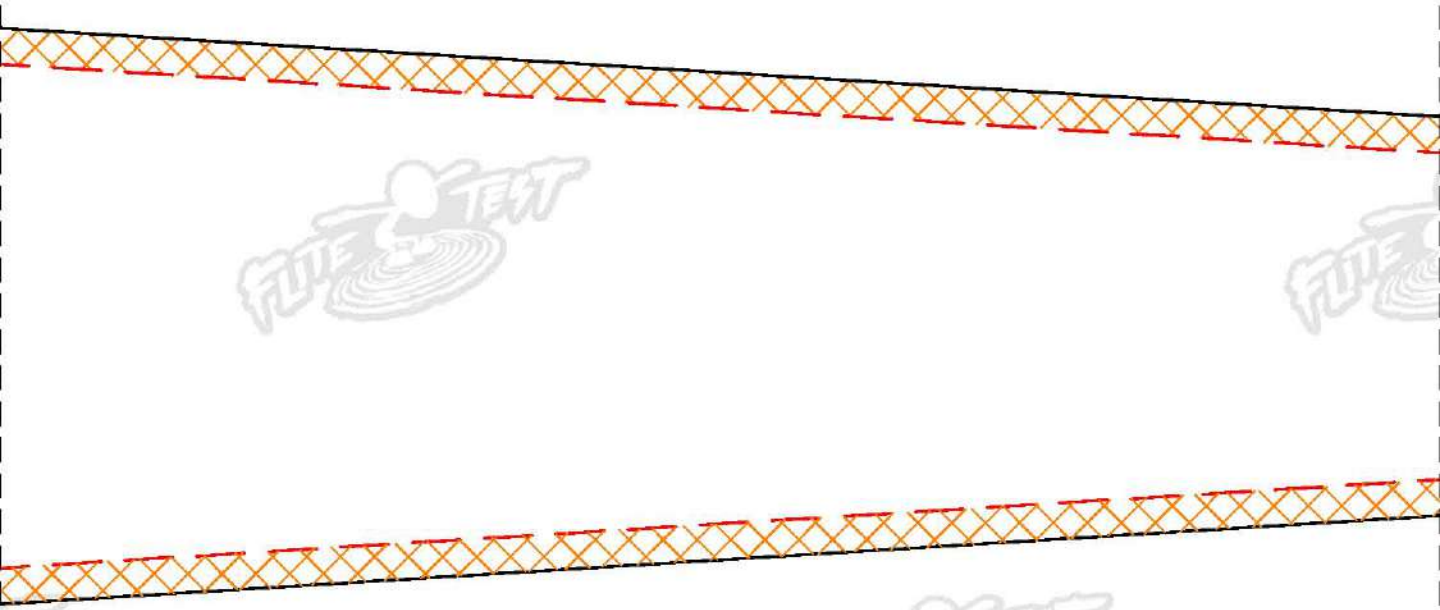


8/1 FUSELAGE REAR

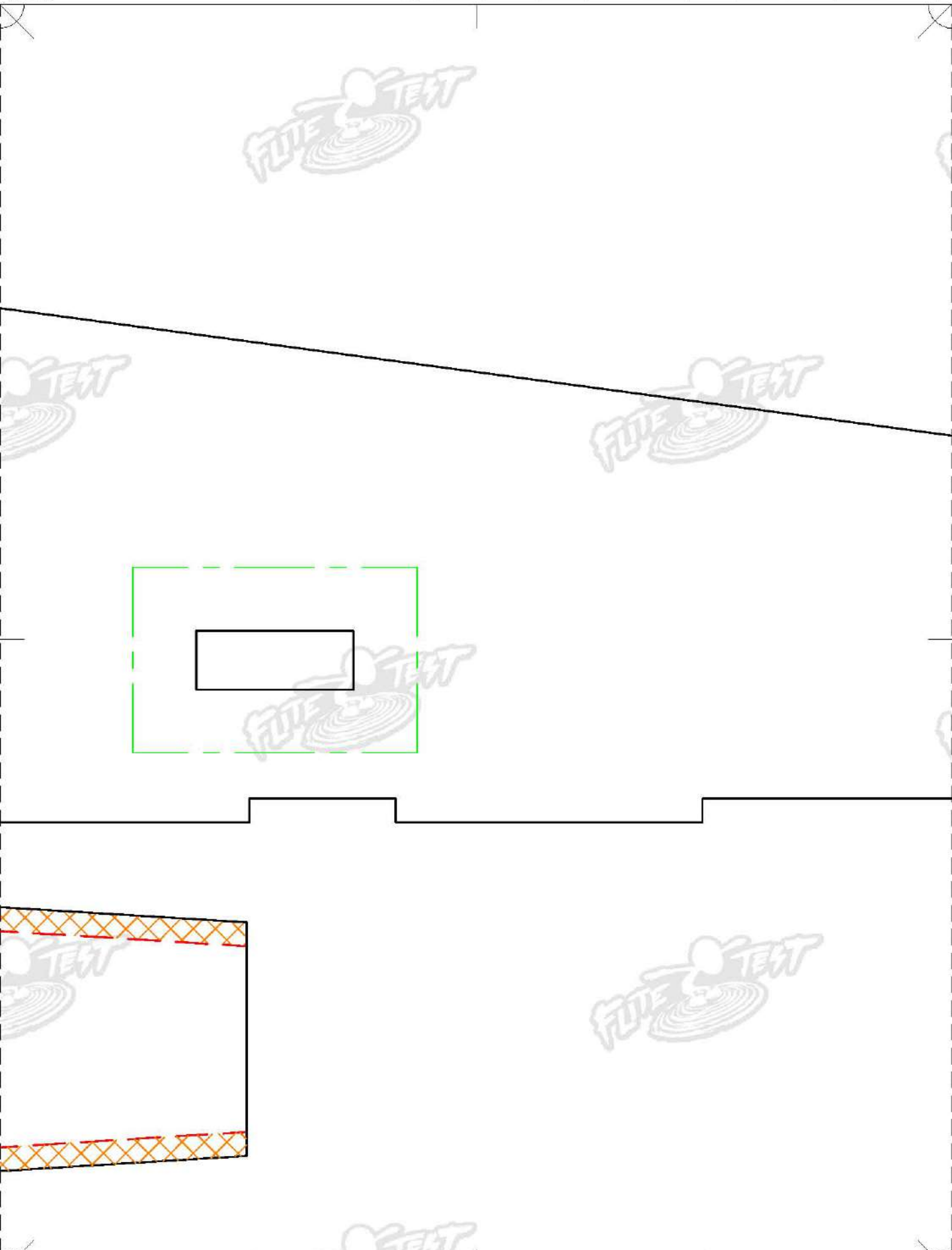
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

IN
CM



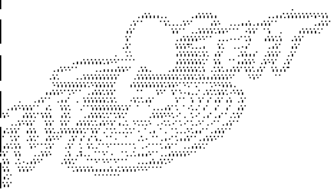


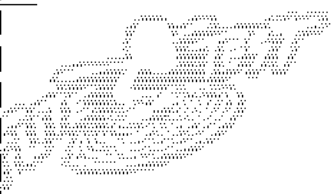
IN
CM



FT SIMPLE SCOUT XL v.10
TILE-A44

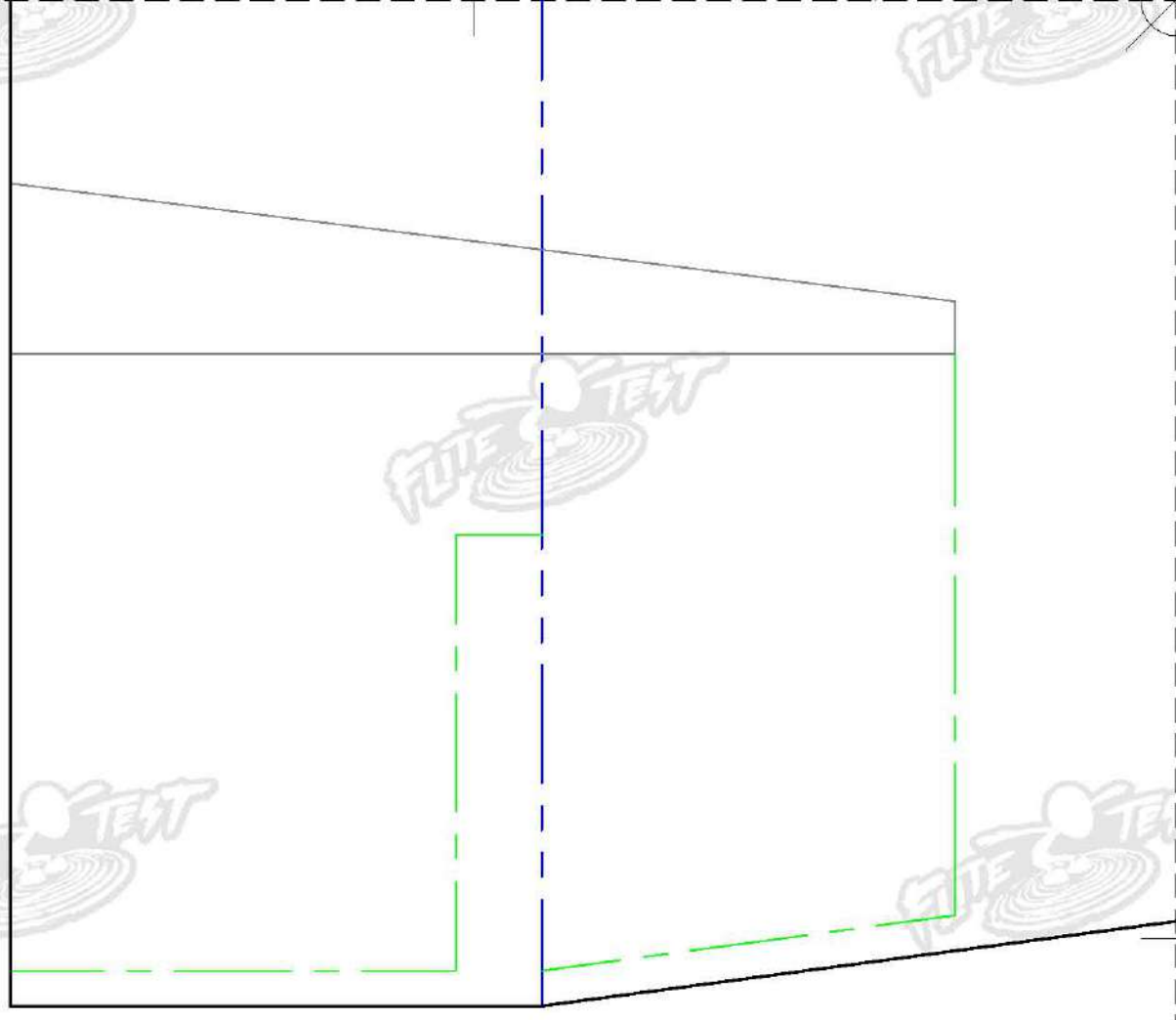
IN
CM

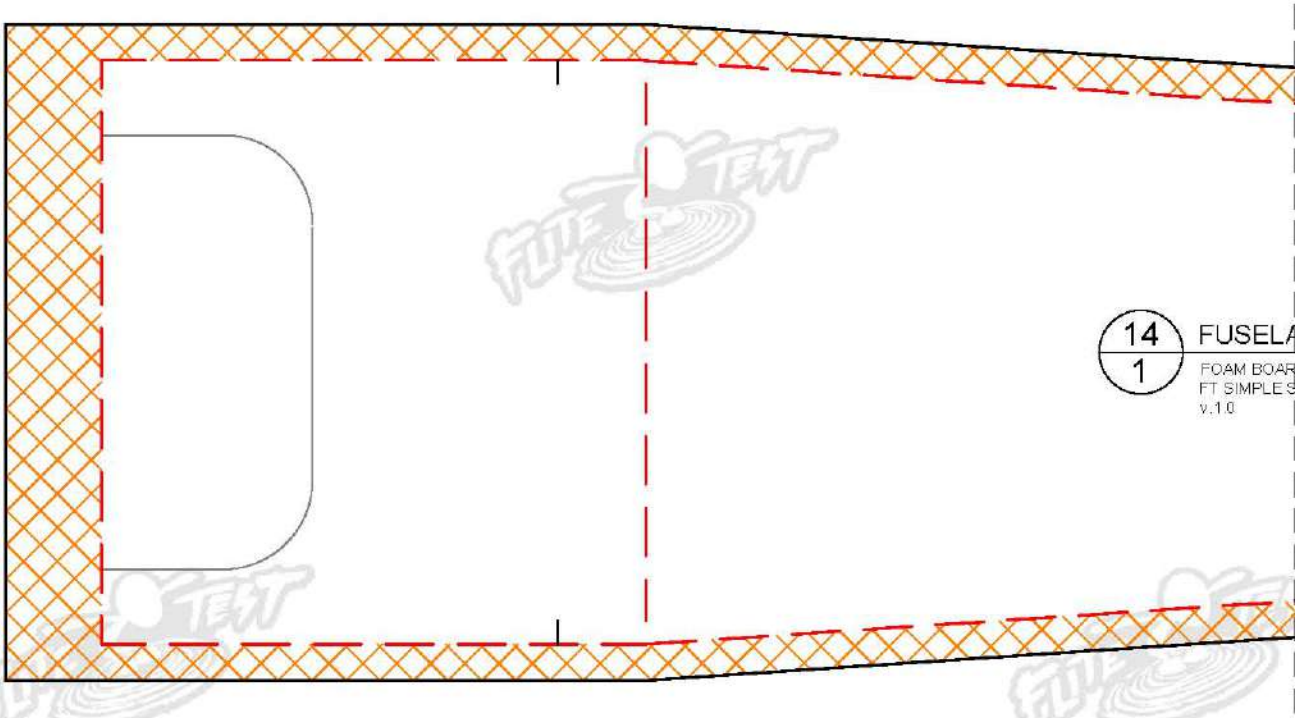










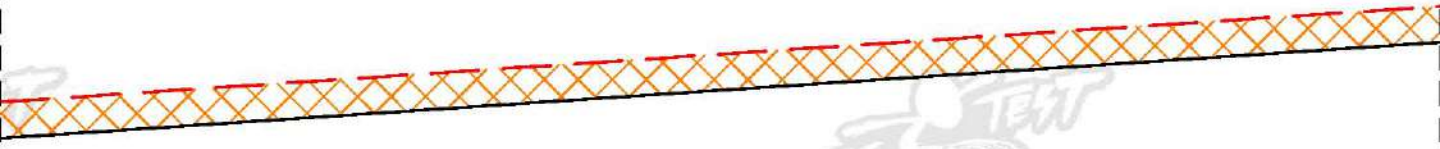
14
1
FUSELA
FOAM BOAR
FT SIMPLE S
v.1.0

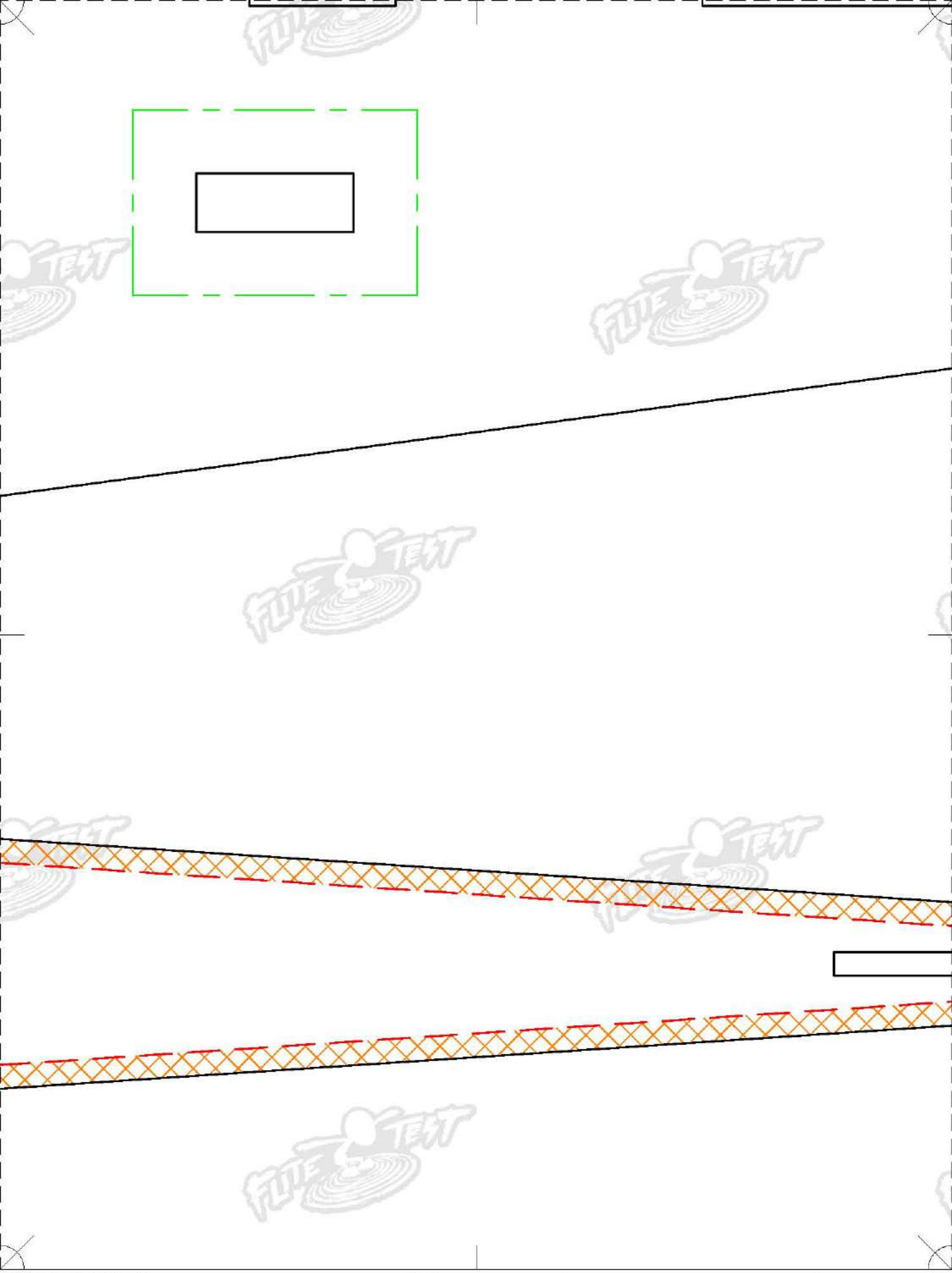


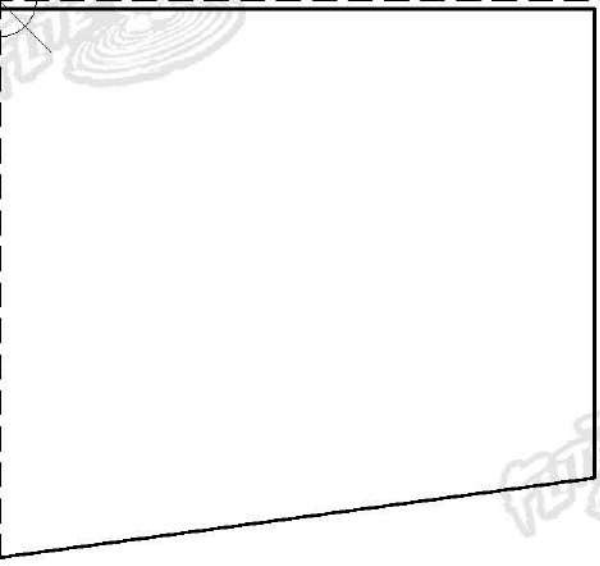


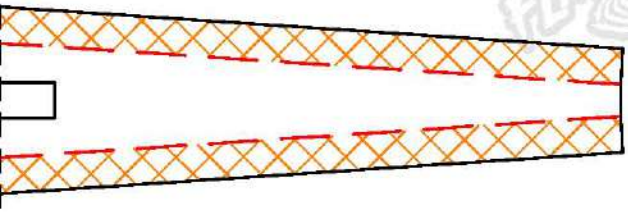
AGE BOTTOM REAR

D
COUT XL

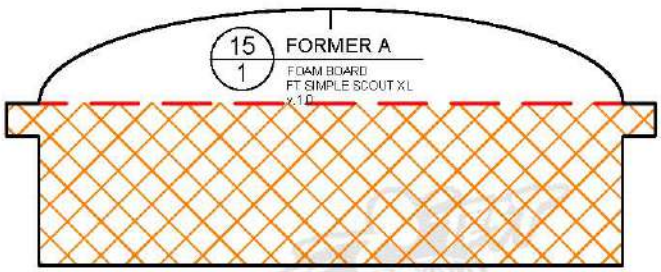




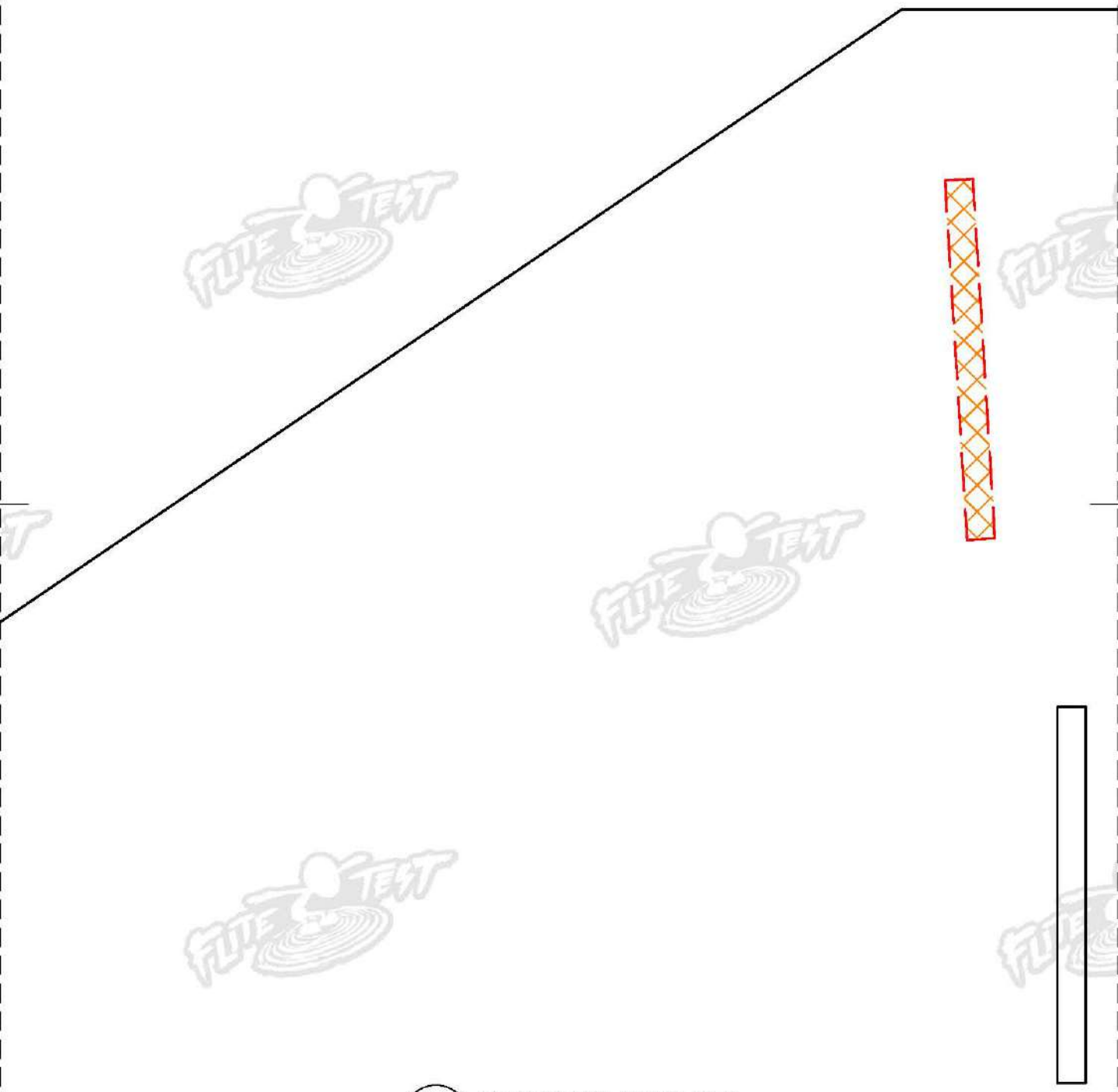




IN
CM



IN
CM

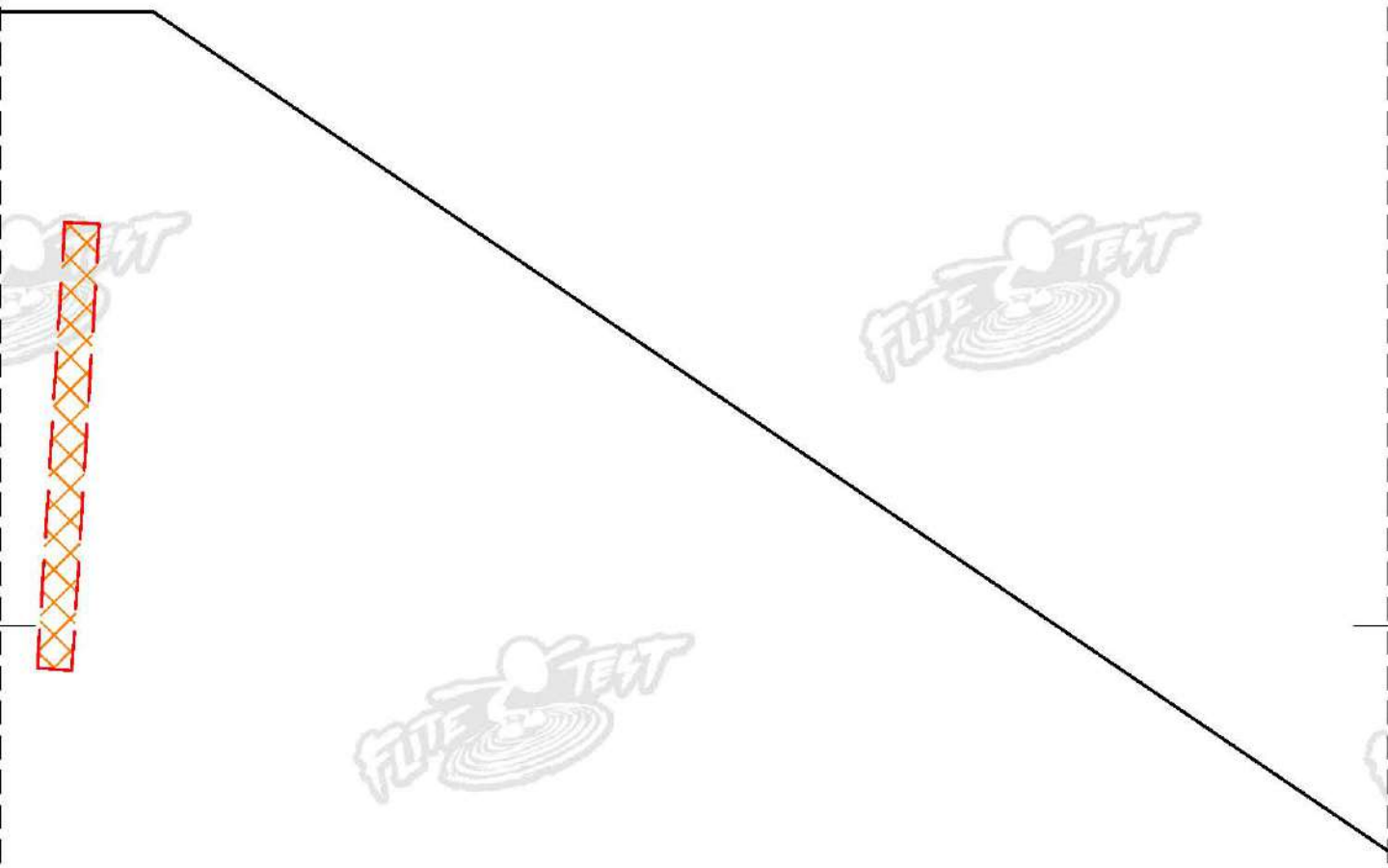


11
1

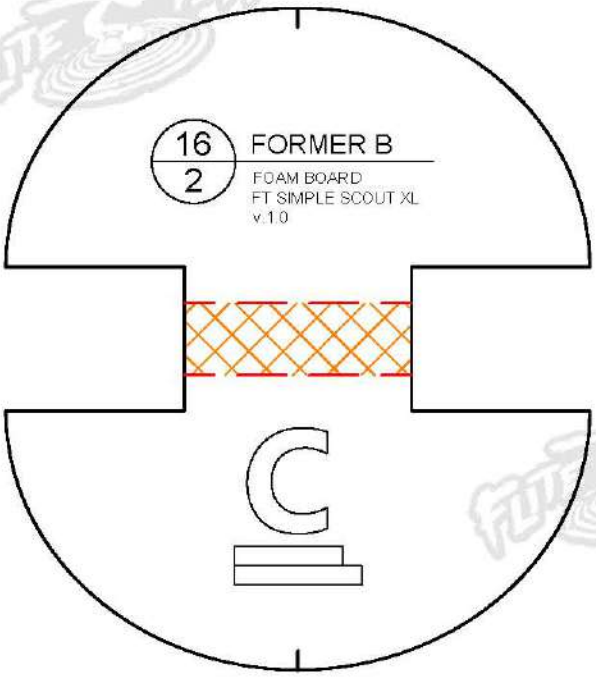
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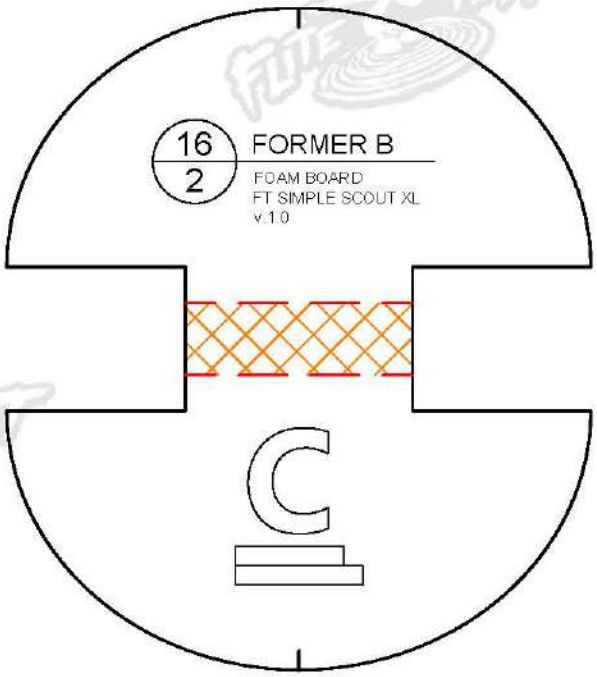
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

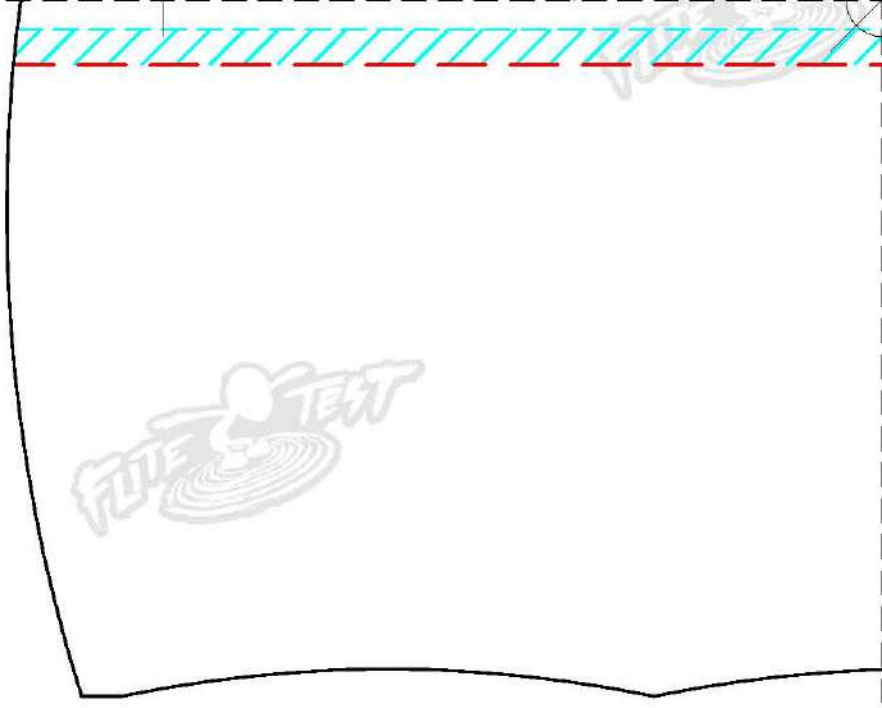
IN
CM

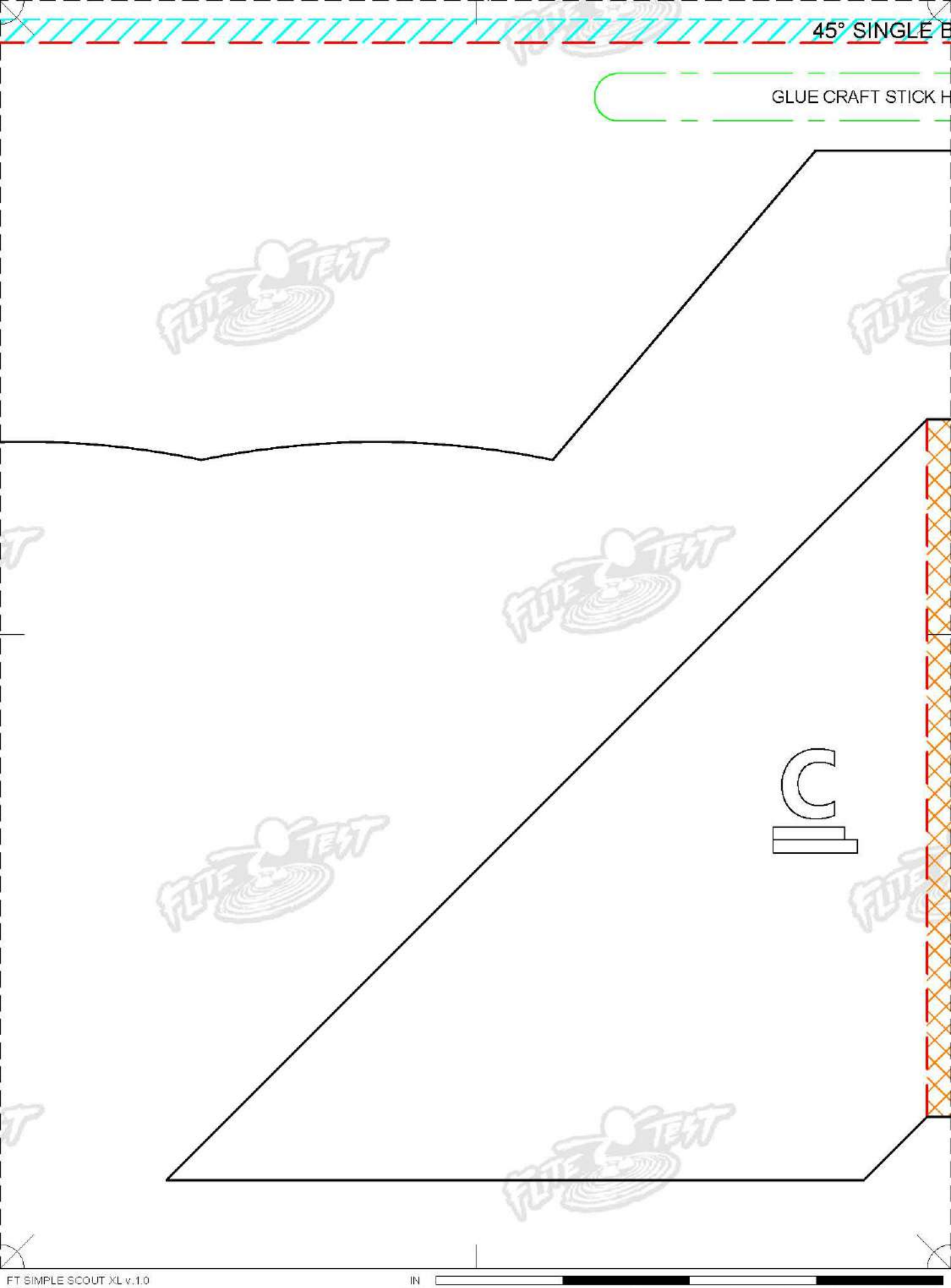


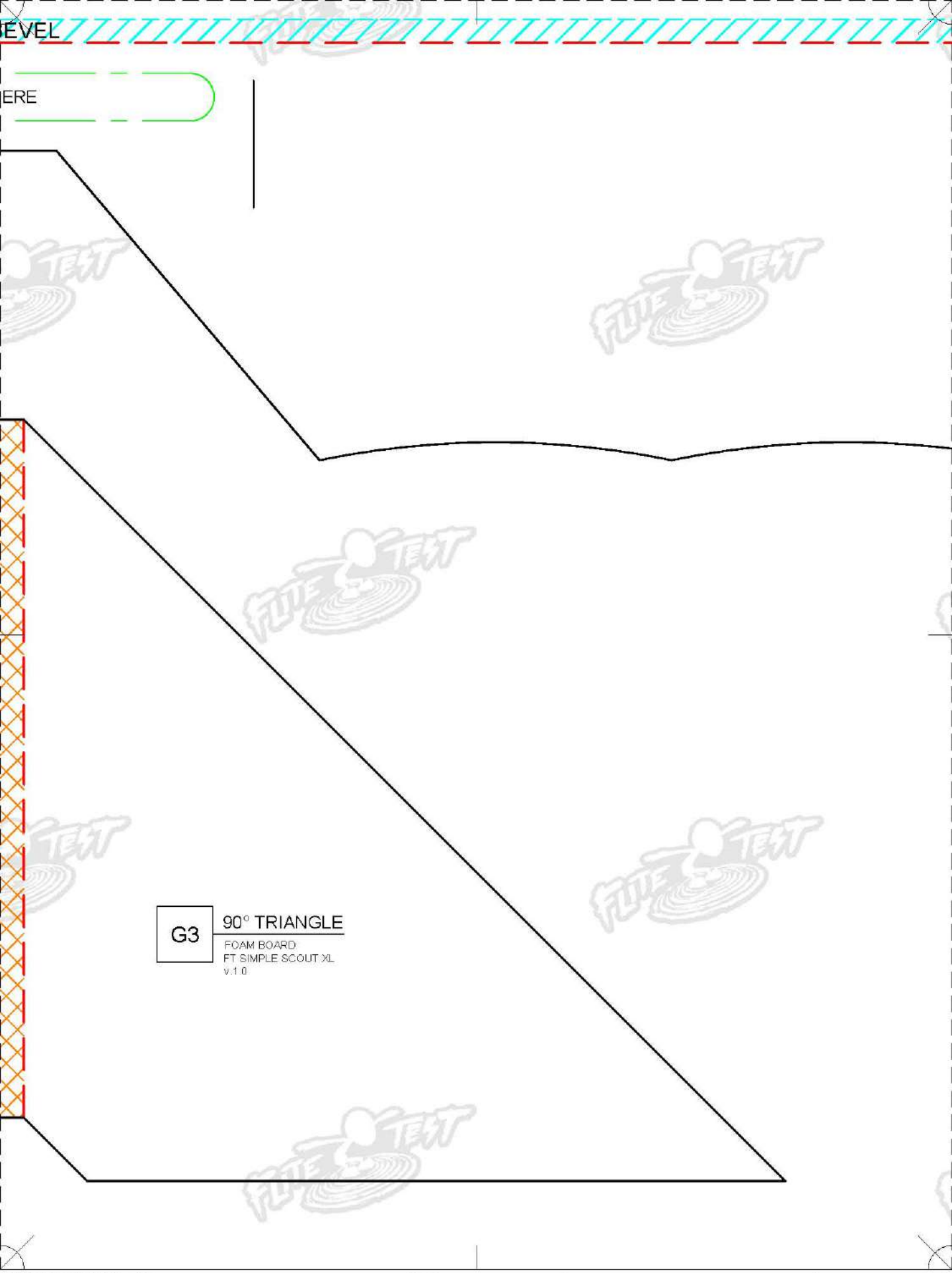
IN
CM

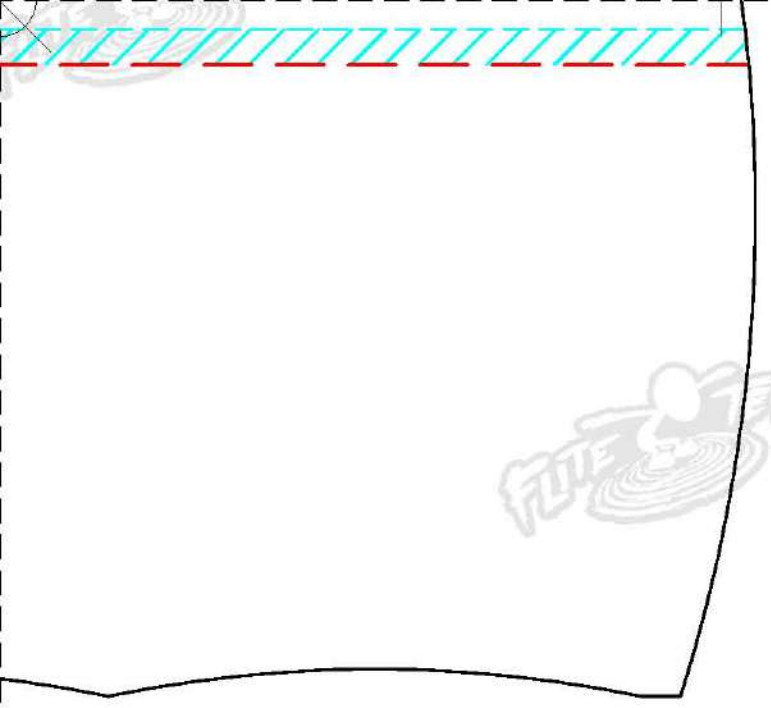

16
2
FORMER B
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

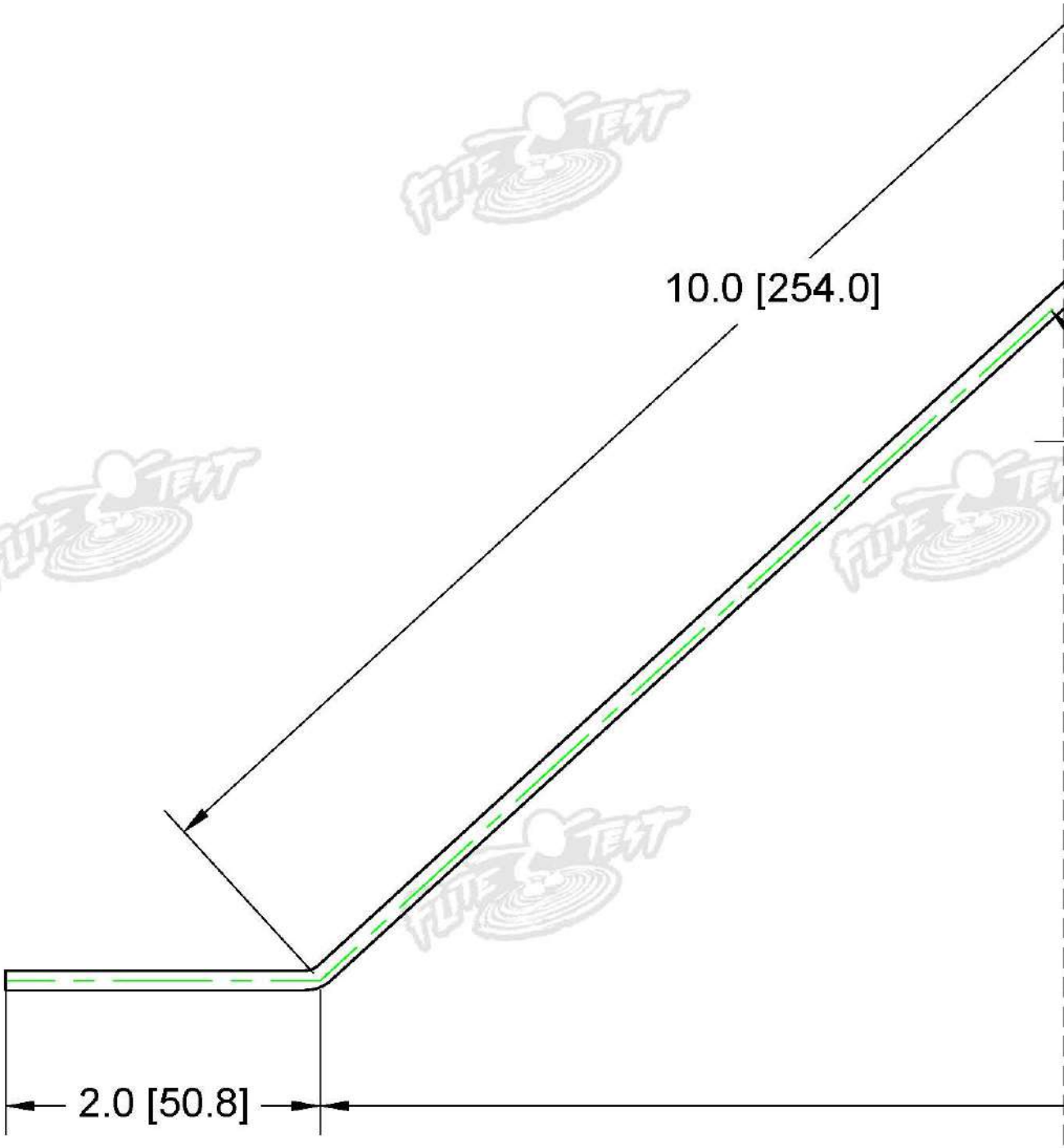

16
2
FORMER B
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0



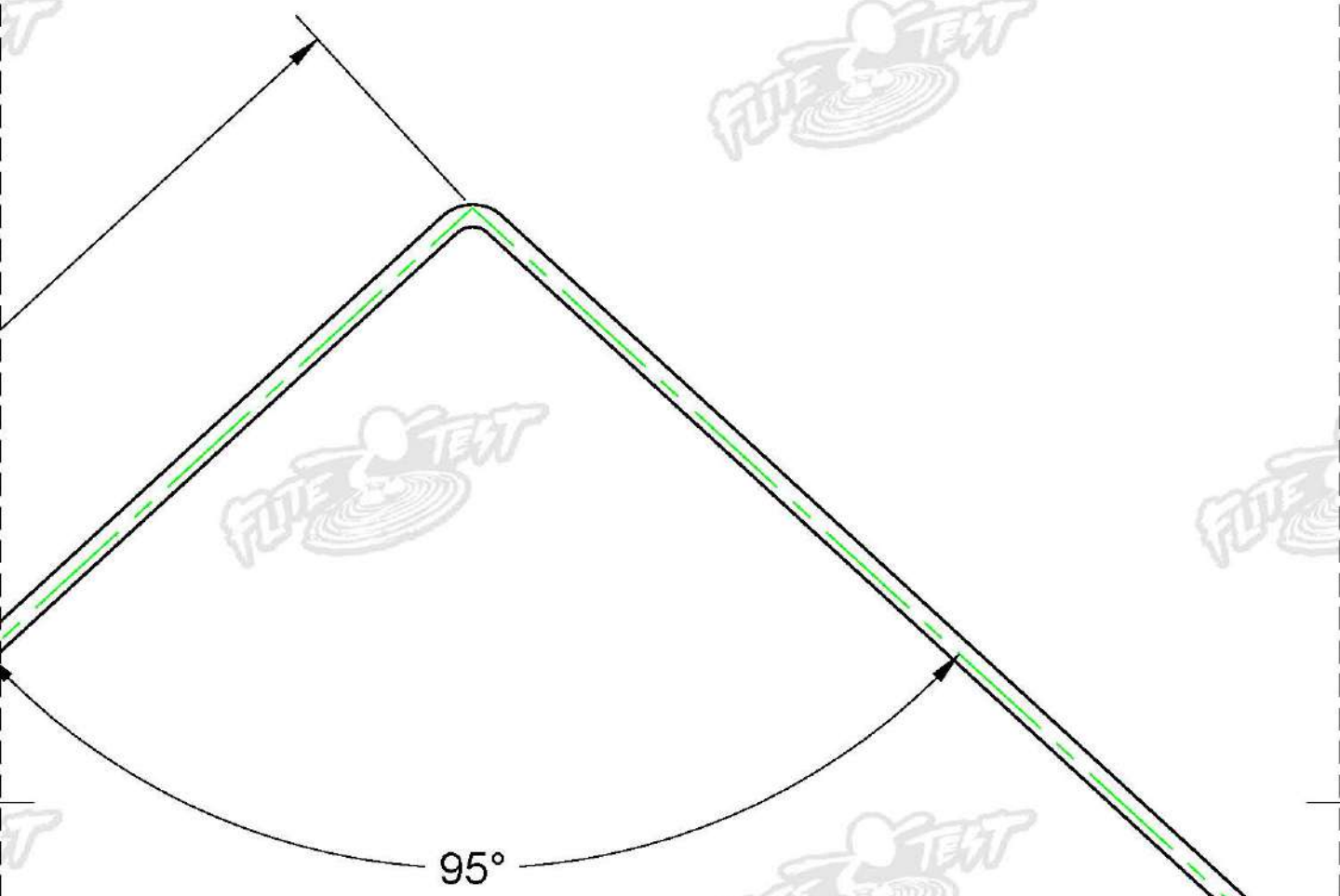

45° SINGLE E
GLUE CRAFT STICK H


EVEL
ERE
G3
90° TRIANGLE
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0




10.0 [254.0]
2.0 [50.8]

IN
CM



G4

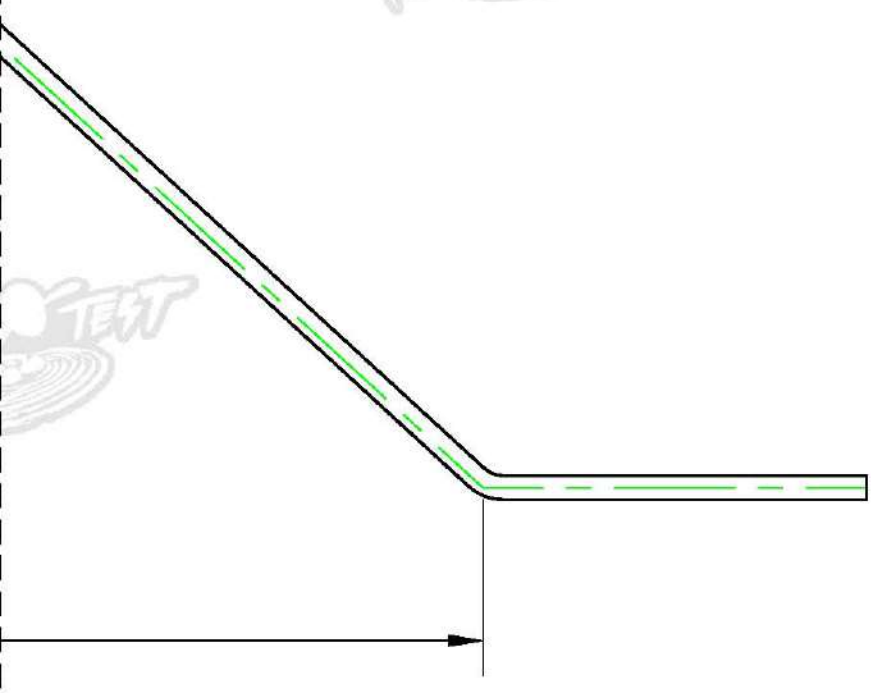
WIRE BENDING GAUGE

Ø .125" (3.18 MM) WIRE
FT SIMPLE SCOUT XL
v.1.0

Ø .125" (3.18 MM) X 24" (610 MM) LONG

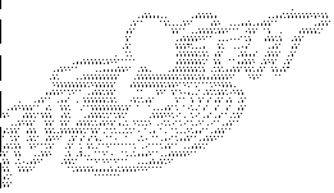
14.75 [374.5]

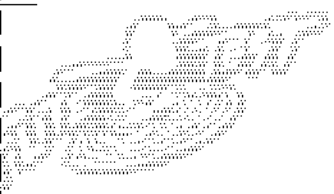
IN
CM



FT SIMPLE SCOUT XL v.1.0
TILE-A60

IN
CM



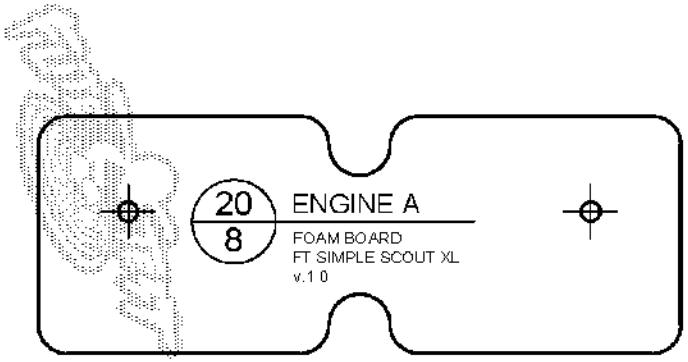



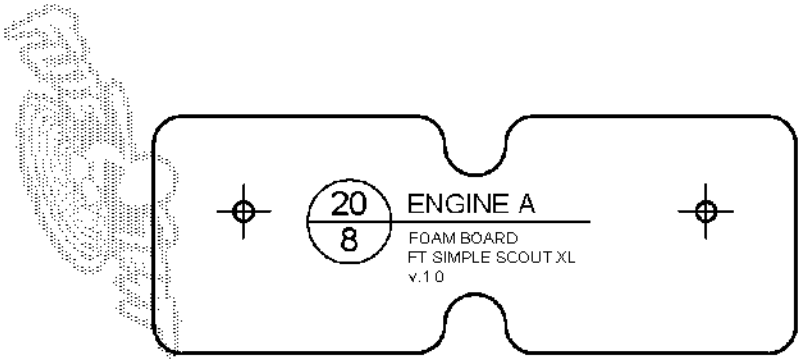


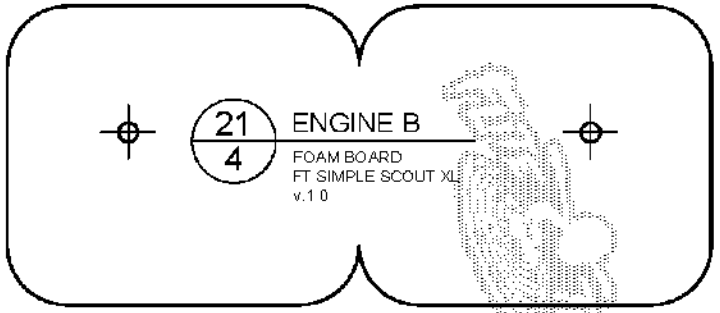


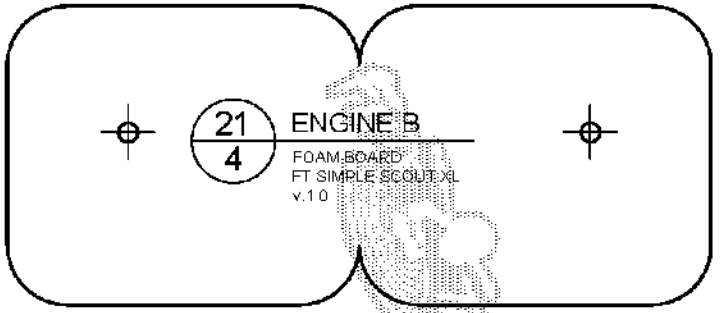
FT SIMPLE SCOUT XL v.1.0
TILE-A61

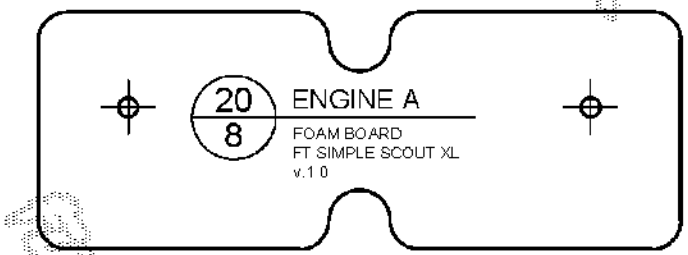
CM IN

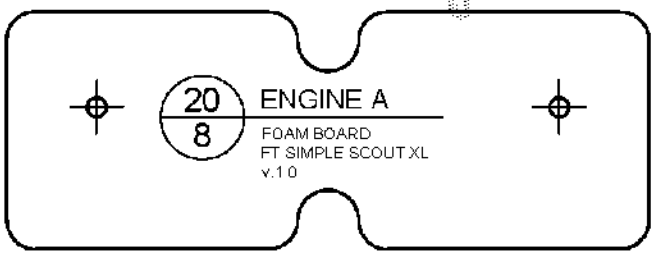






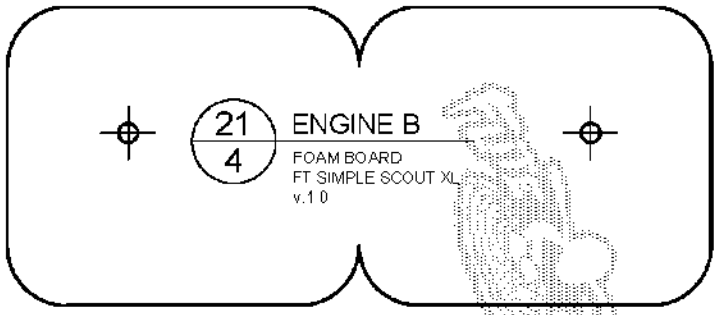


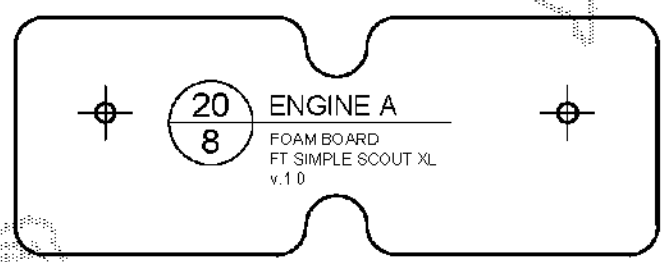


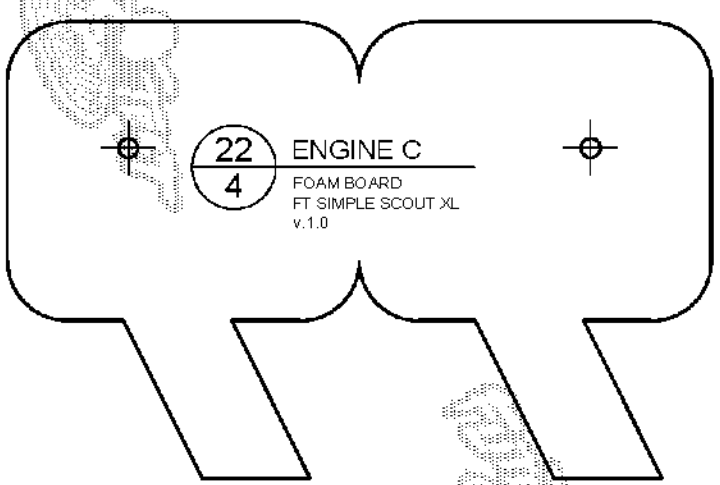


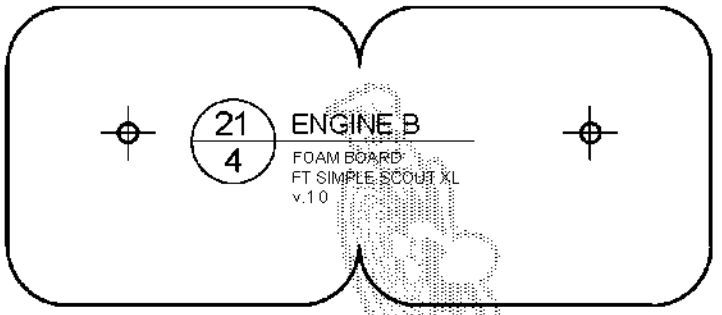
FT SIMPLE SCOUT XL v.1.0
TILE-A62

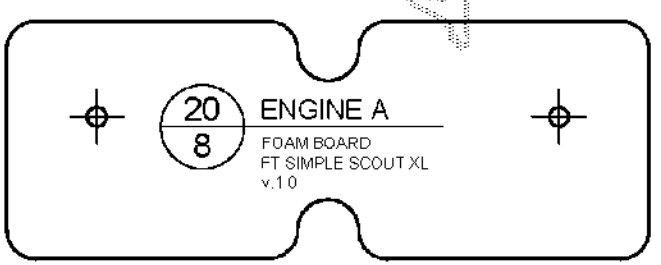
CM IN

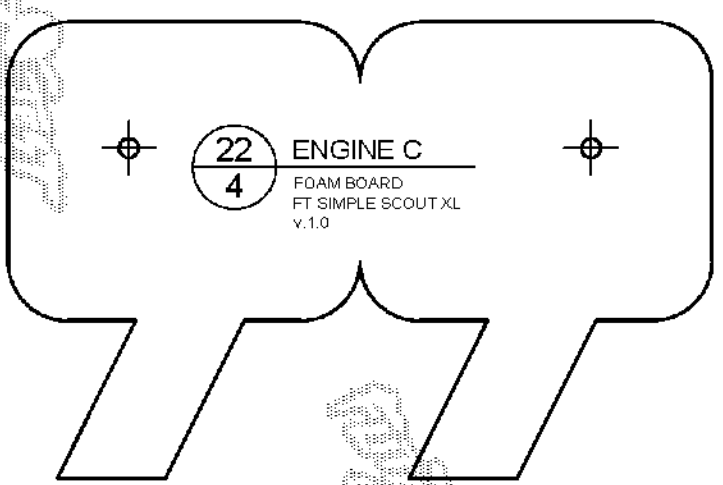






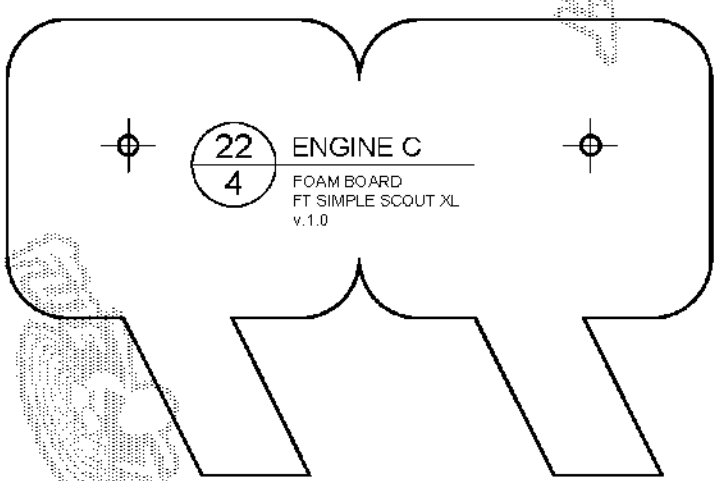


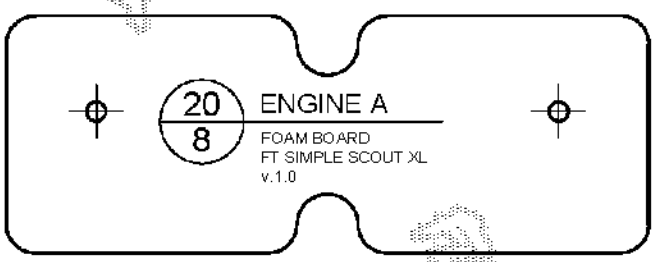


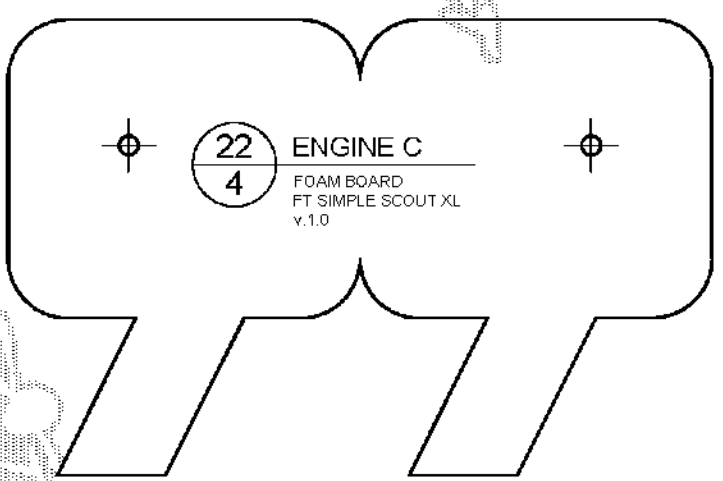


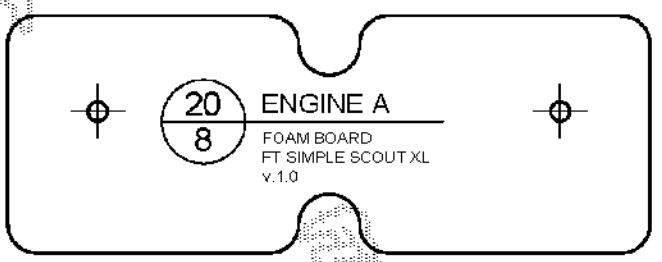
FT SIMPLE SCOUT XL v.1.0
TILE-A63

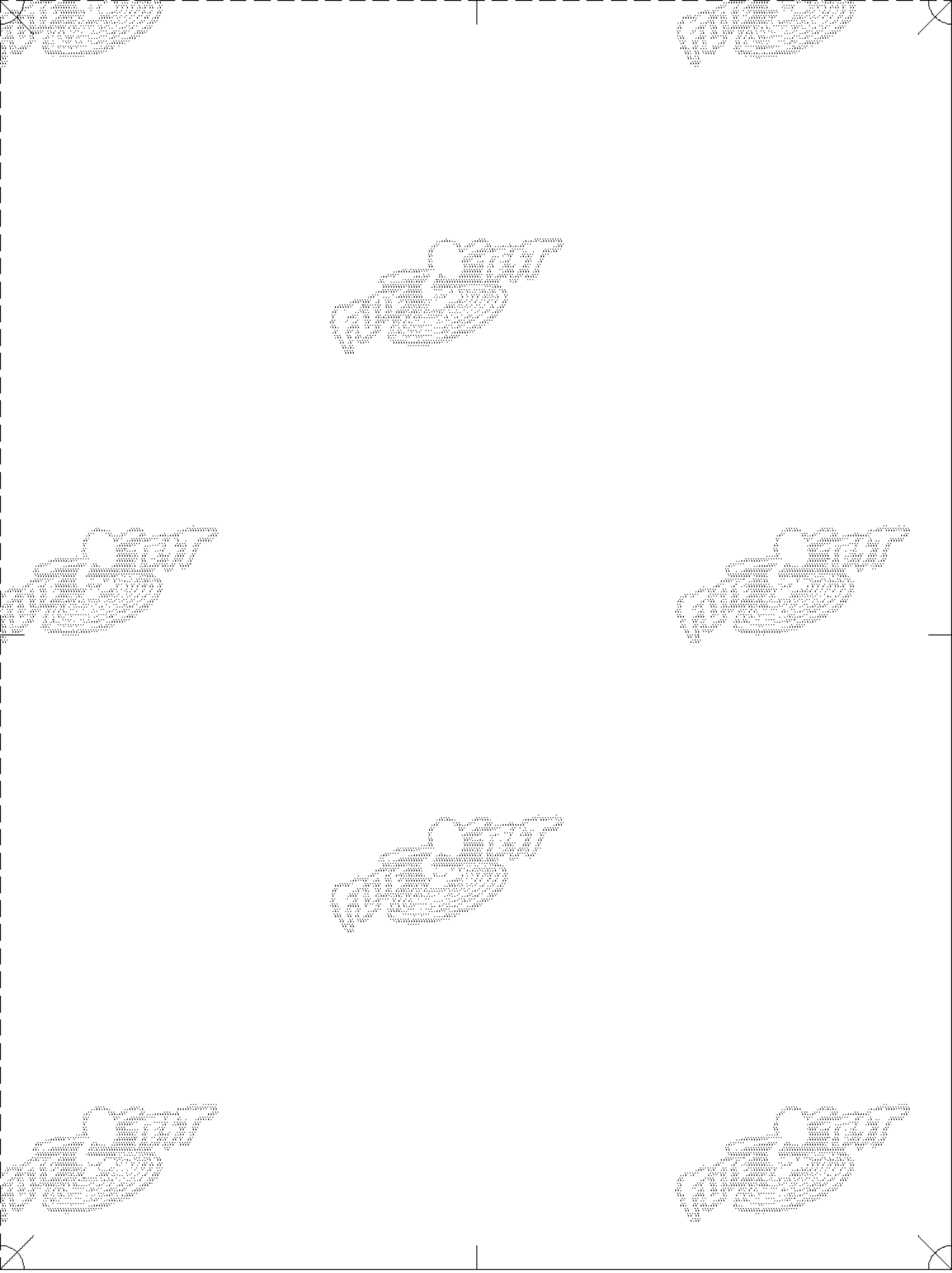
CM IN









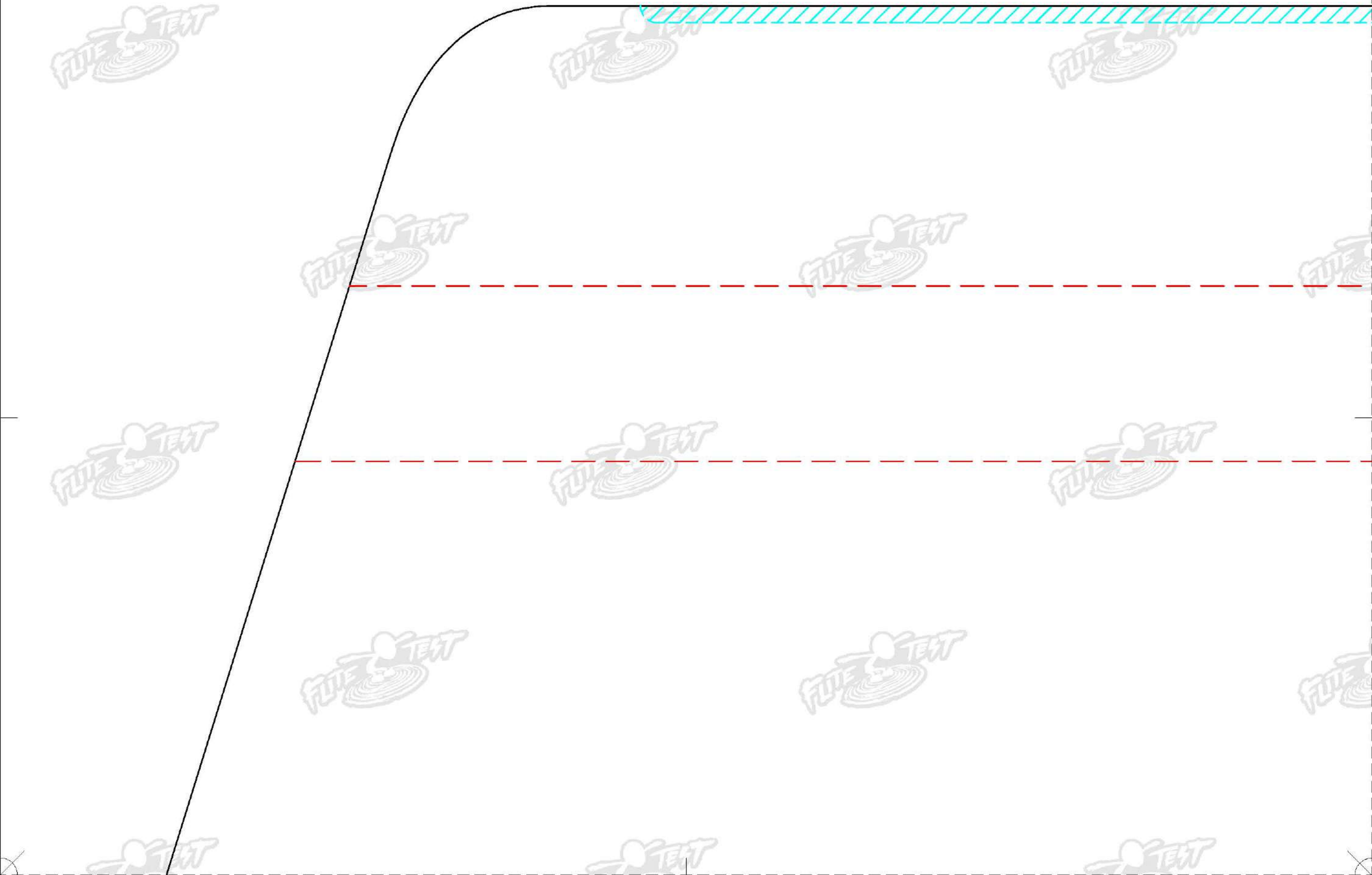


FT SIMPLE SCOUT XL v.1.0
TILE-A64

IN
CM

FT SIMPLE SCOUT XL v.1.0
TILE-B1

IN
CM

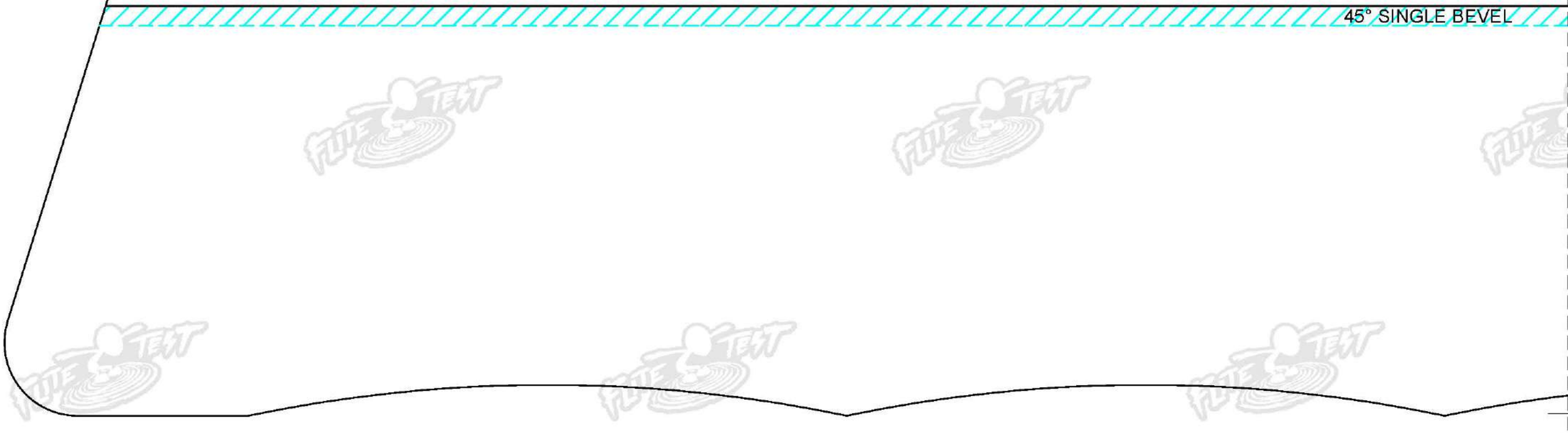


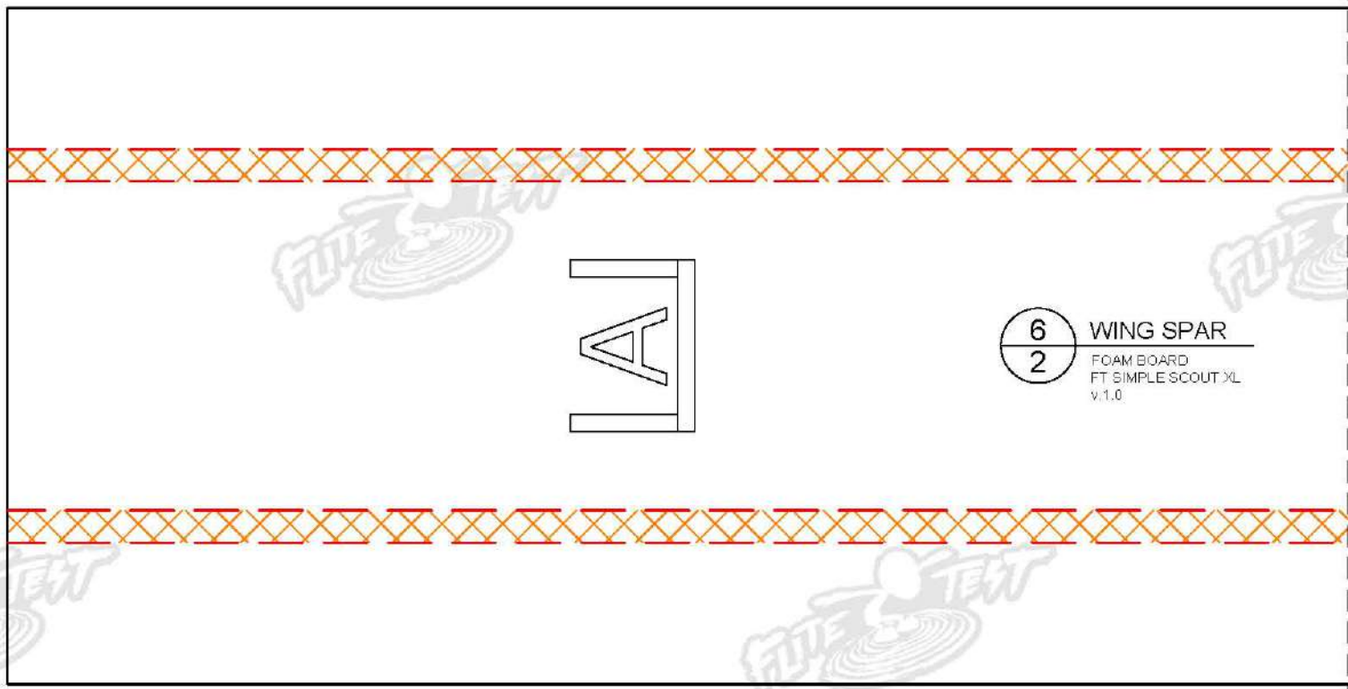
IN
CM

45° SINGLE BEVEL

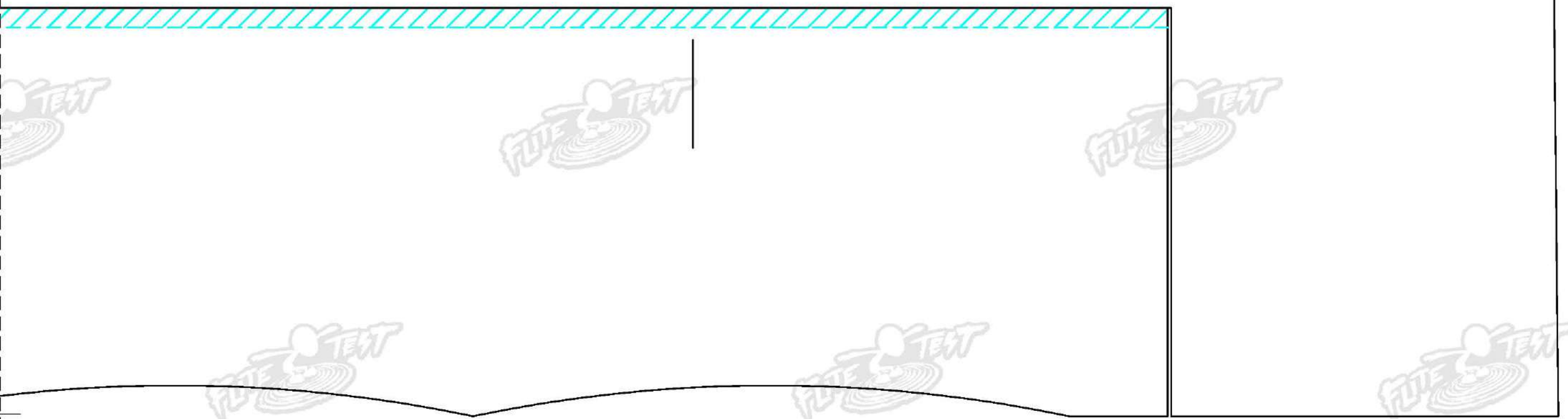
4/1 RIGHT WING TOP

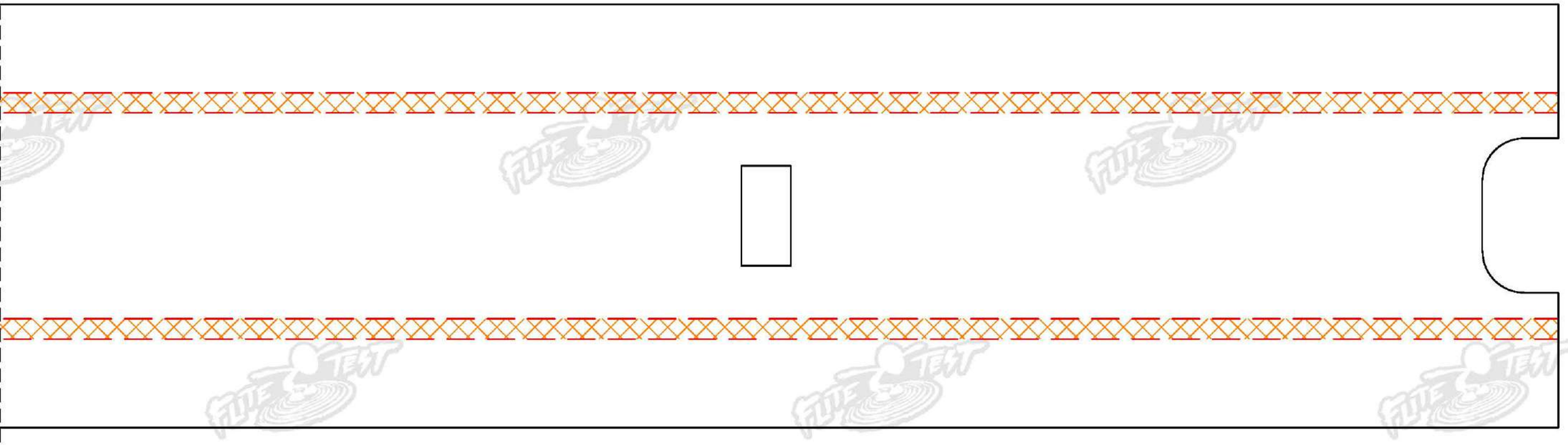
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0


45° SINGLE BEVEL


A
6
2
WING SPAR
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

IN
CM





FT SIMPLE SCOUT XL v.1.0
TILE-B4

IN
CM

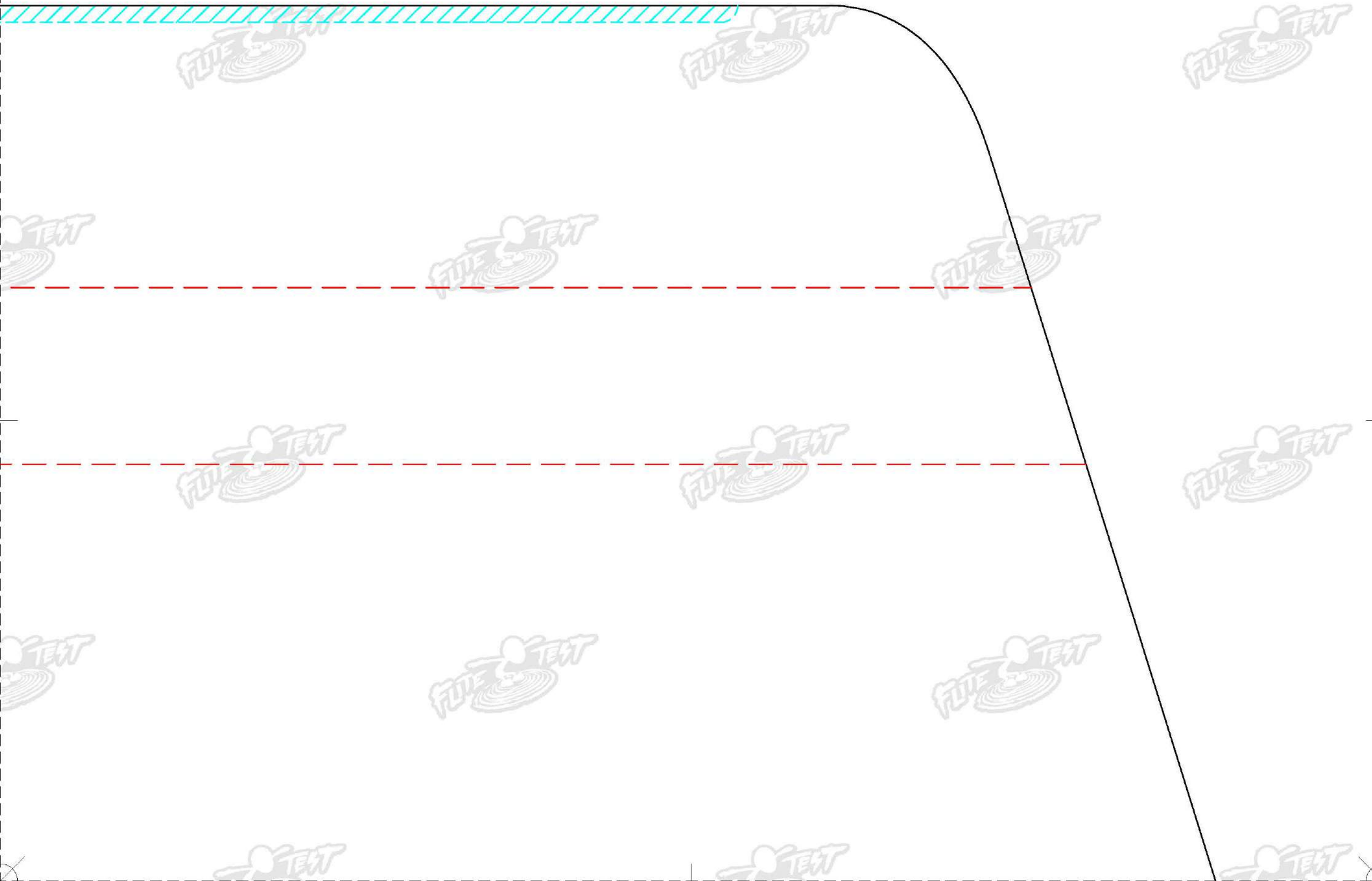
IN
CM

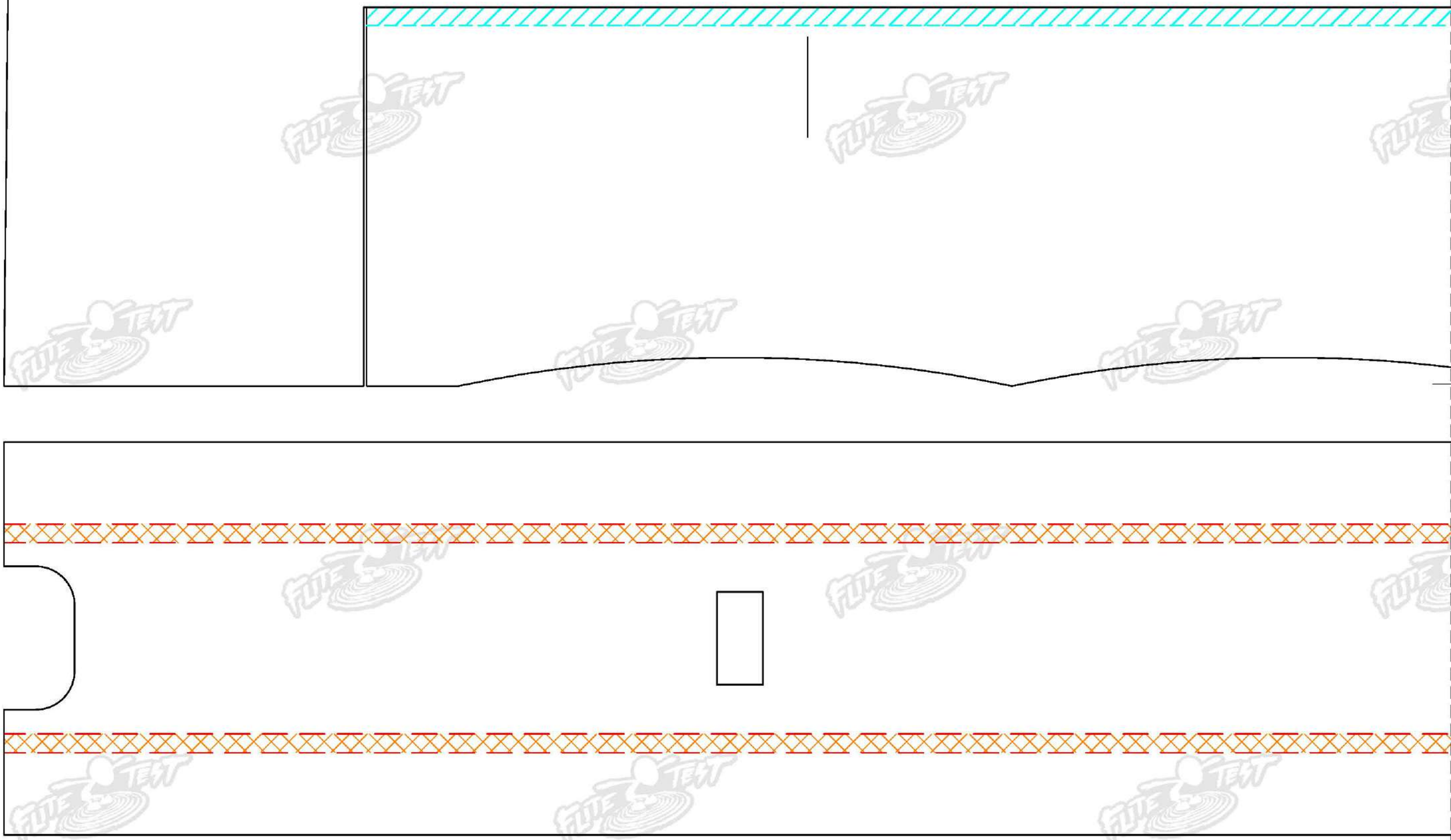
45° SINGLE BEVEL

2/1 LEFT WING TOP
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

FT SIMPLE SCOUT XL v.1.0
TILE-B6

IN
CM

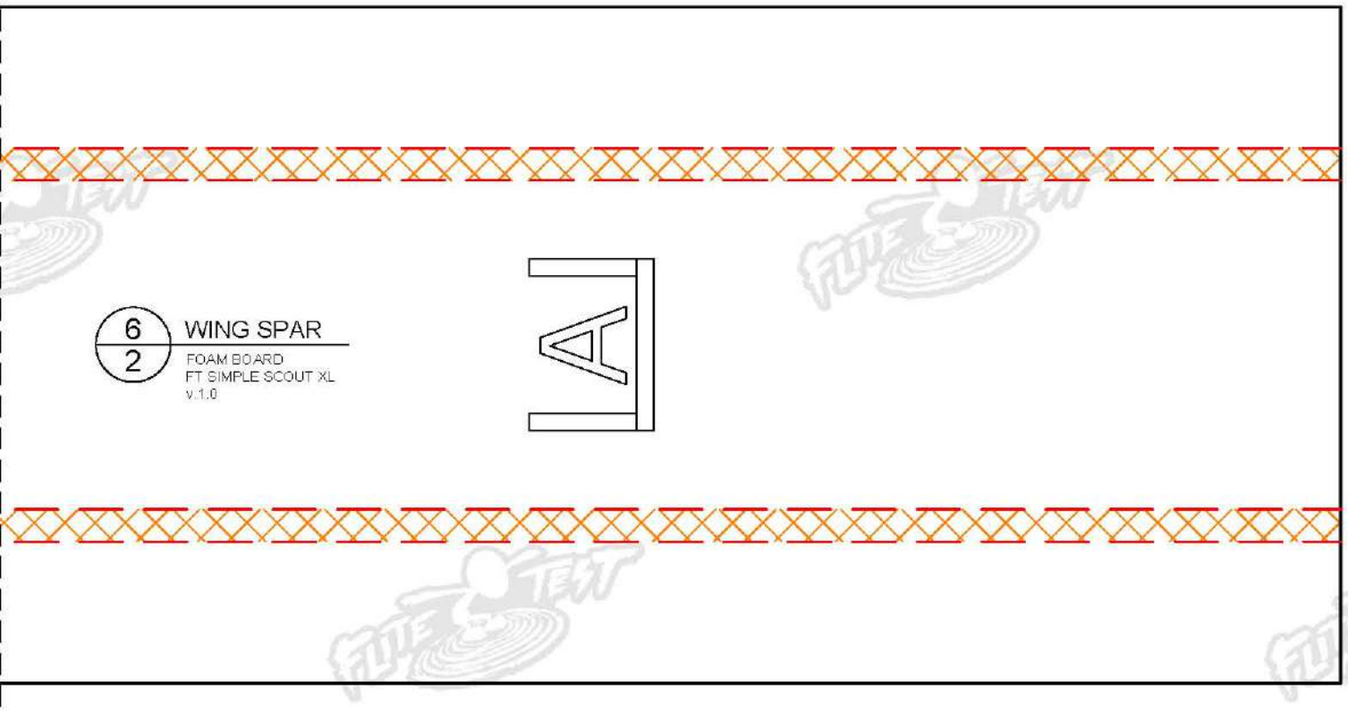




FT SIMPLE SCOUT XL v.1.0
TILE-B7

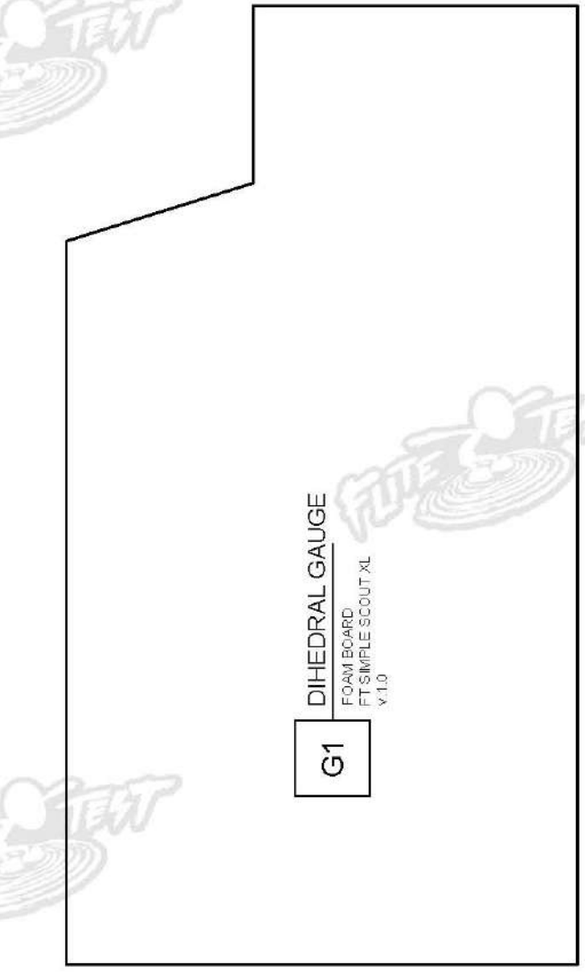
IN
CM

45° SINGLE BEVEL

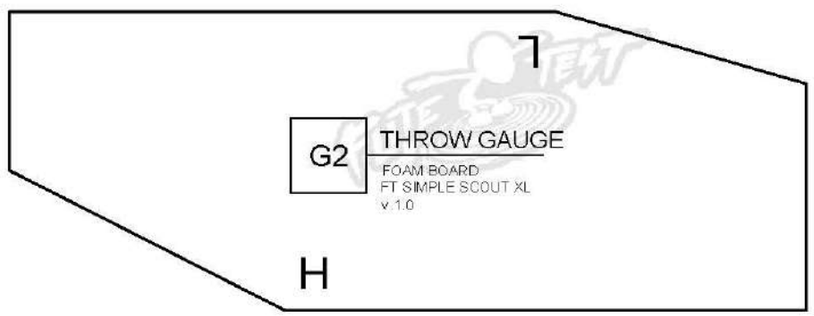


IN
CM

IN
CM

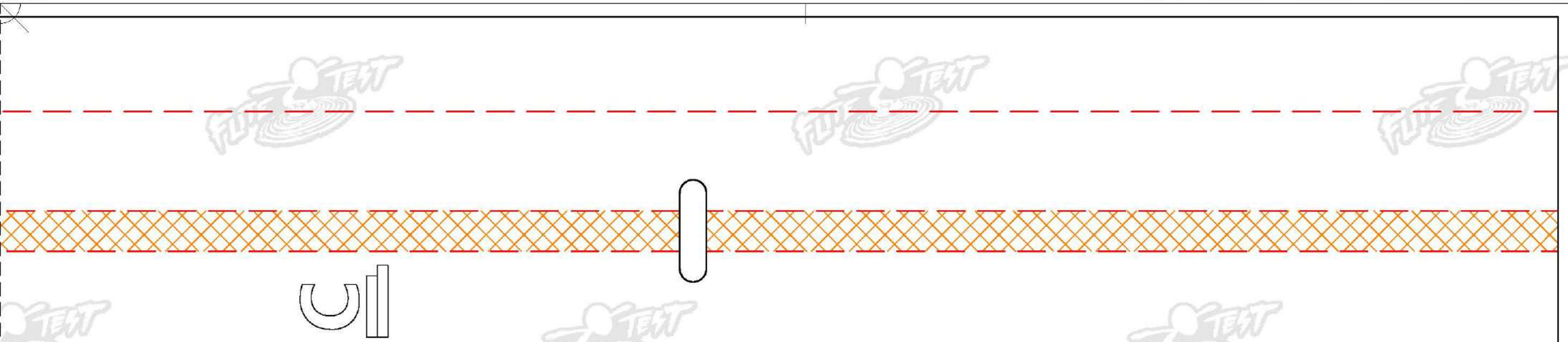


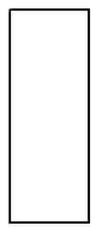
G1 DIHEDRAL GAUGE
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

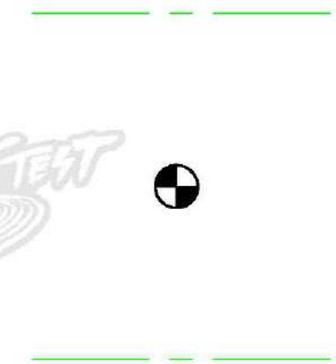


G2 THROW GAUGE
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

IN
CM







5/1 RIGHT WING BOTTOM

FOAM BOARD
FT SIMPLE SCOUT XL
V.1.0

FT SIMPLE SCOUT XL v.1.0
TILE-B11

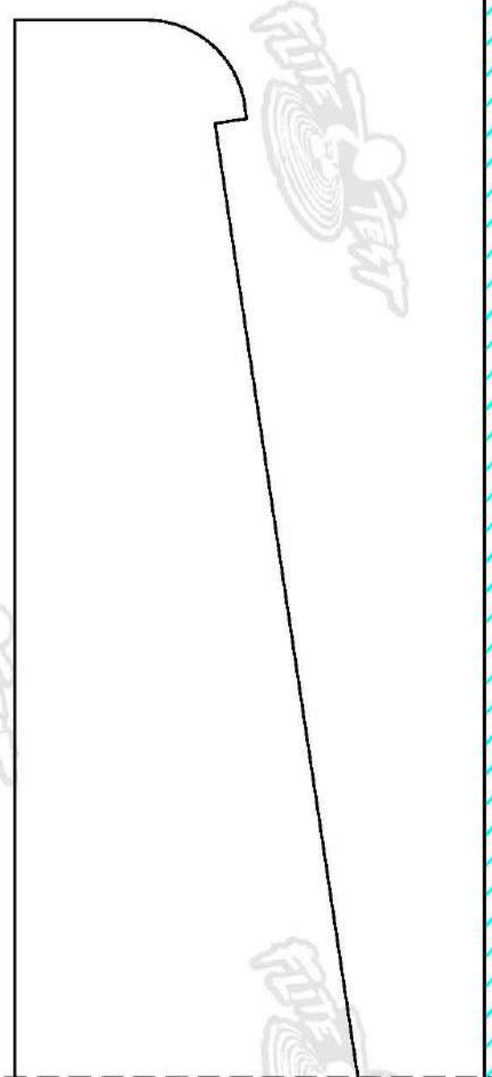
1/1 POWER POD

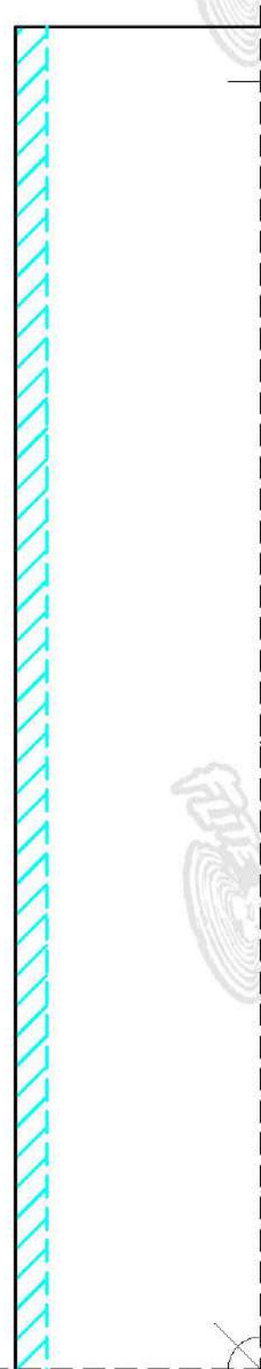
FOAM BOARD
FT SIMPLE SCOUT XL
v 1.0

A

USE FULL LENGTH FOR
FLUSH MOUNT FIREWALL
OR
CUT TO REQUIRED LENGTH
TO INSET THE MOTOR
(VARIES BY MOTOR SIZE)

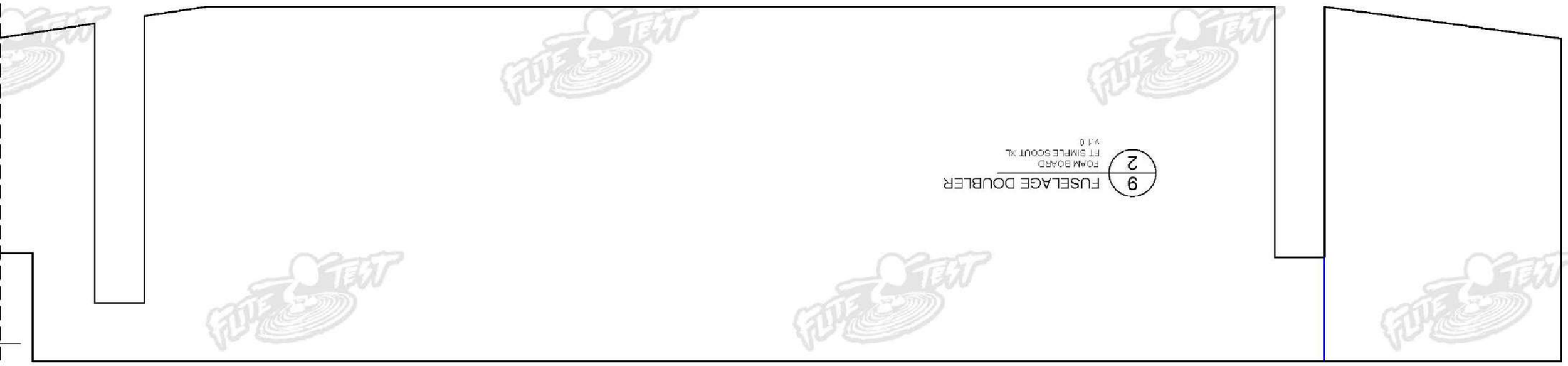




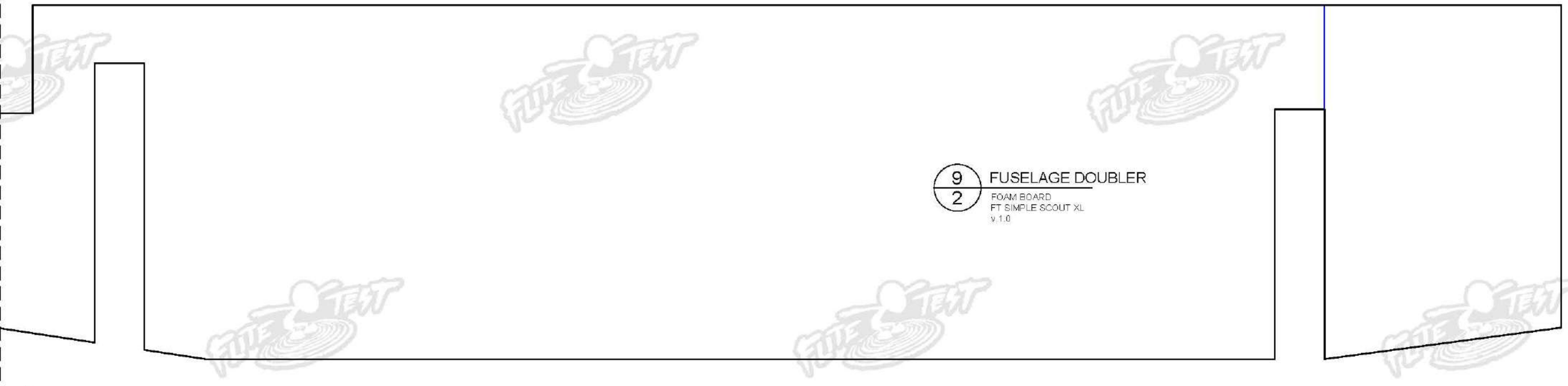


CM
IN

45° SINGLE BEVEL



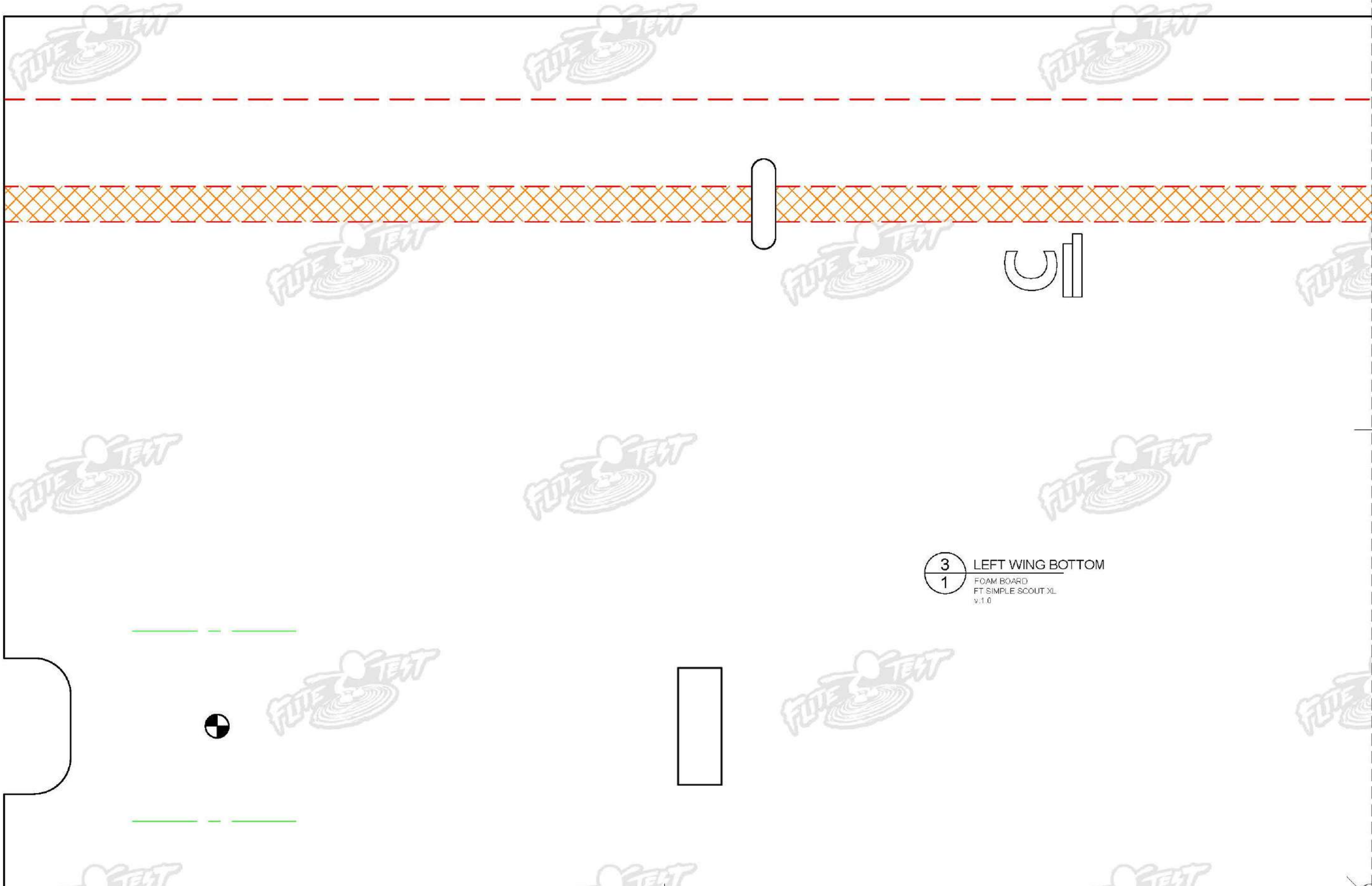
9/2 FUSELAGE DOUBLER
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0



9/2 FUSELAGE DOUBLER
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

IN
CM

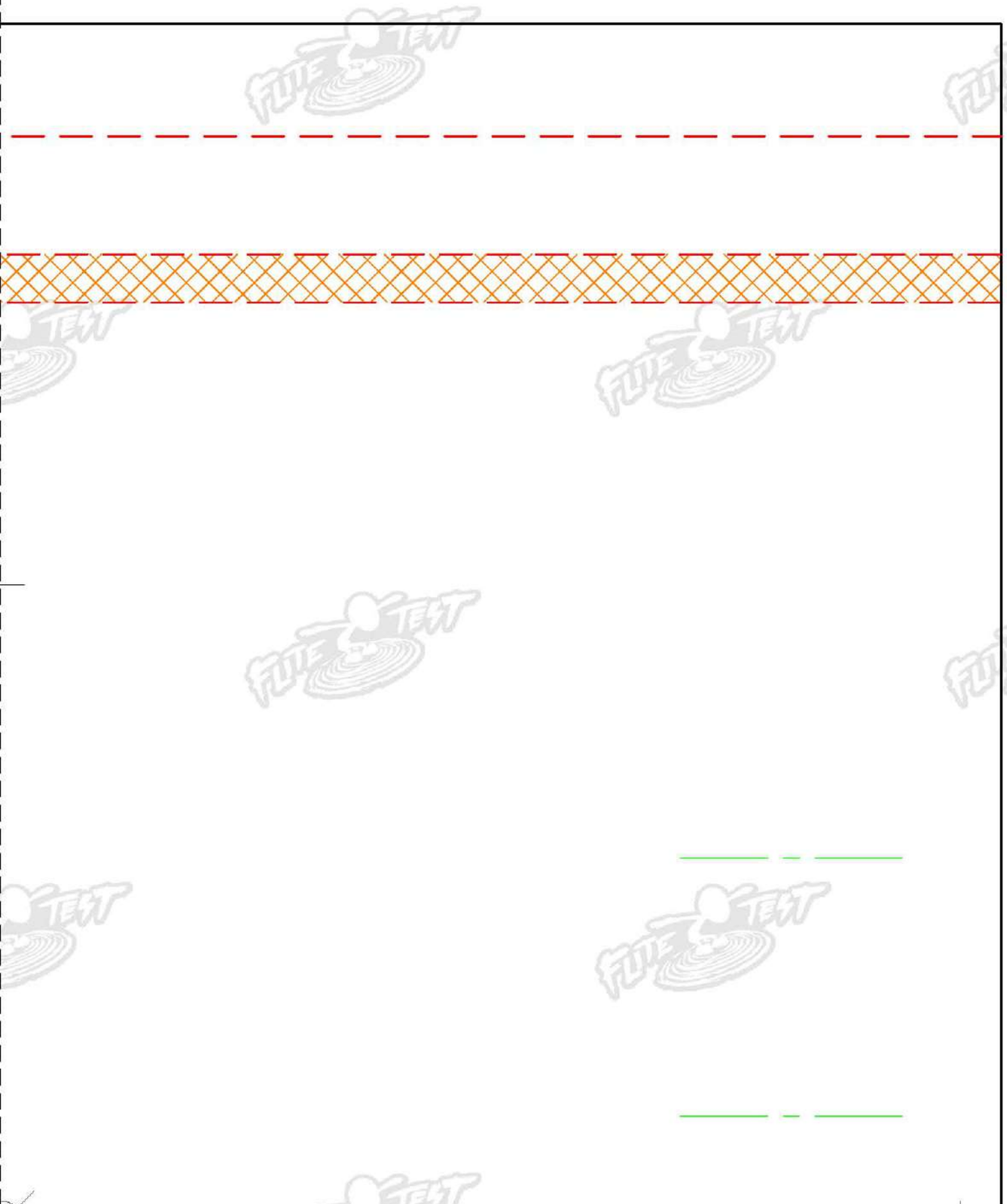
IN
CM



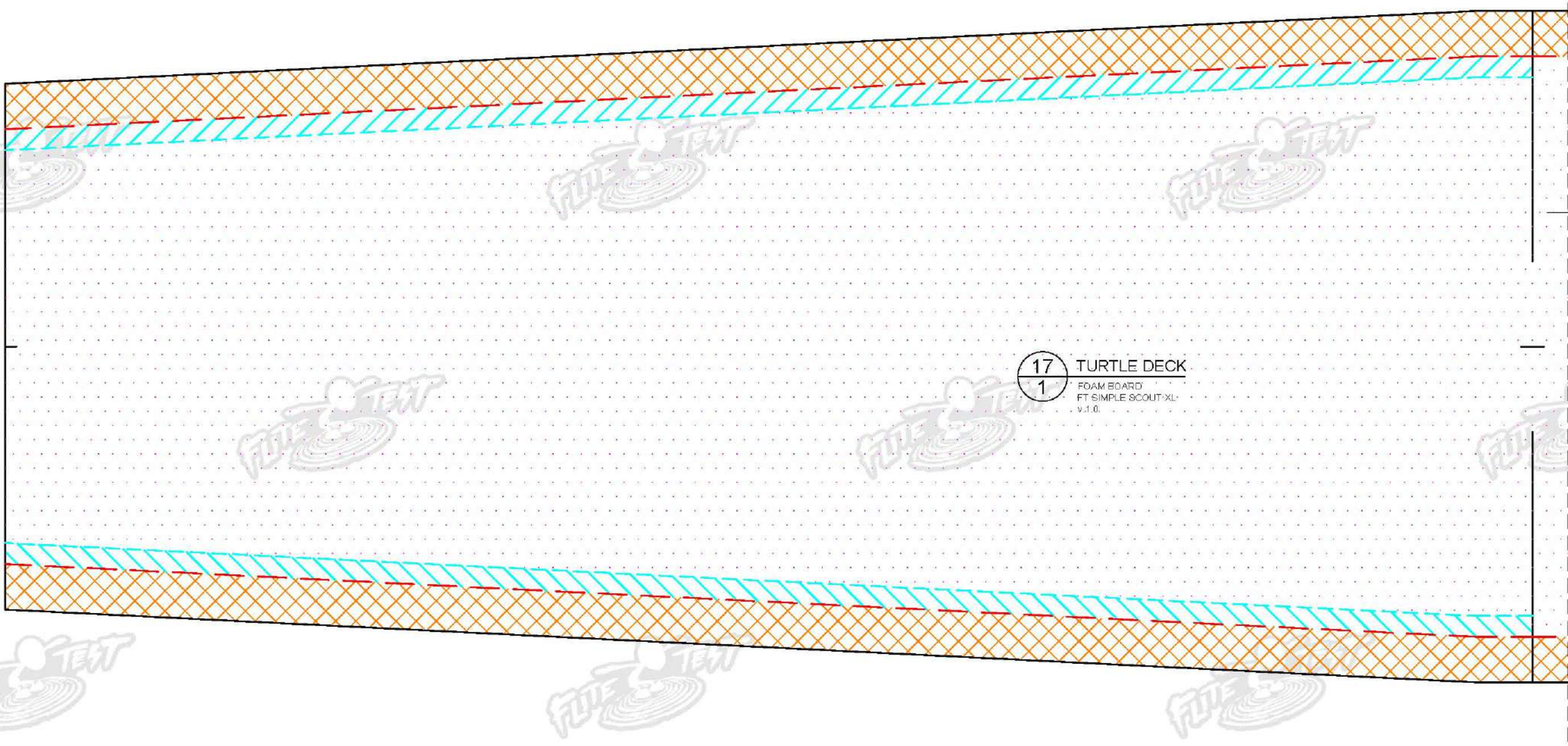
3/1 LEFT WING BOTTOM
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

FT SIMPLE SCOUT XL v.1.0
TILE-B14

IN
CM

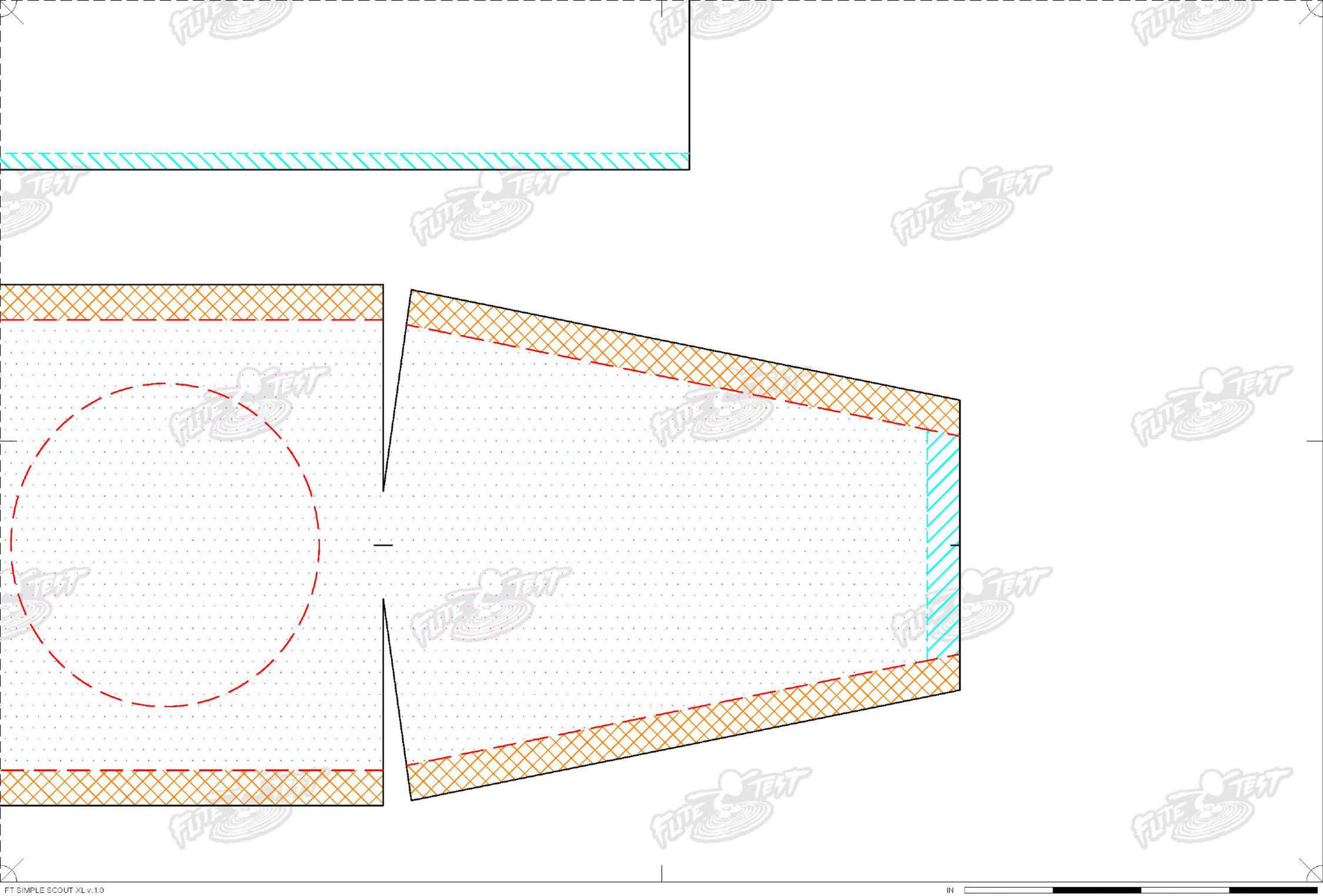


45° SINGLE BEVEL



17/1 TURTLE DECK
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0.

IN
CM



FT SIMPLE SCOUT XL v.1.0
TILE-B16

IN
CM

IN
CM

REMOVE AFTER FOLDING

B

7/1 FUSELAGE FRONT
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

IN
CM

REMOVE
AFTER
FOLDING

45° SINGLE BEVEL

12/1 VERTICAL STABILIZER

FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

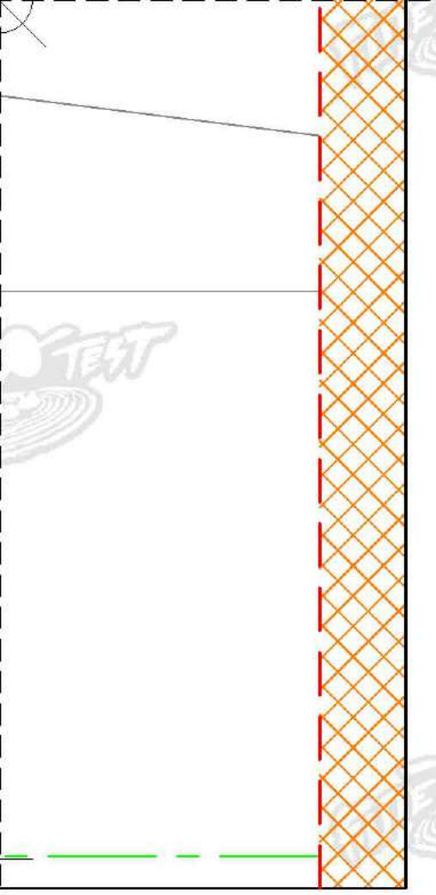
REMOVE AFTER FOLDING

REMOVE AFTER ASSEMBLY

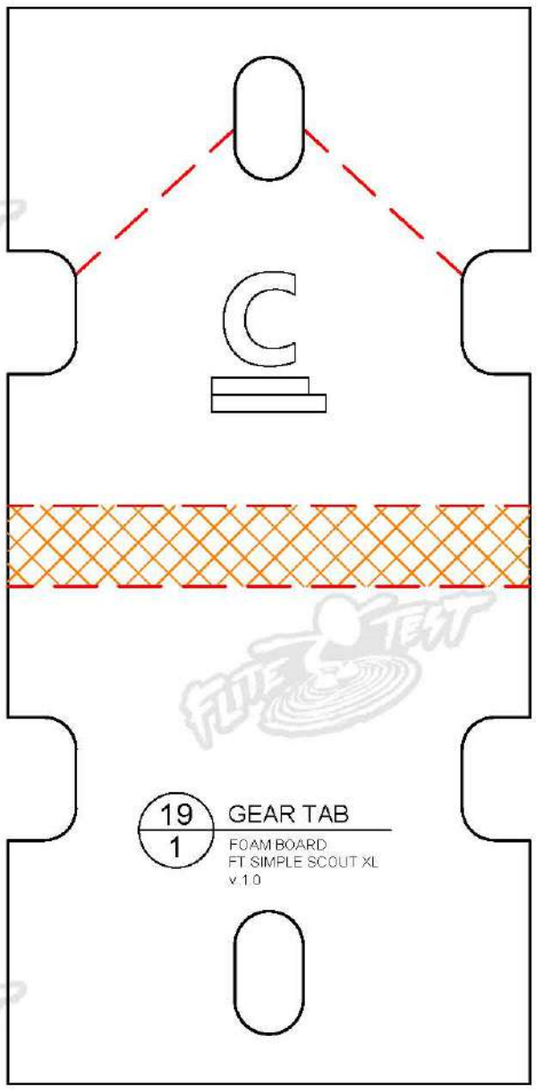
13/1 FUSELAGE BOTTOM FRONT

FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

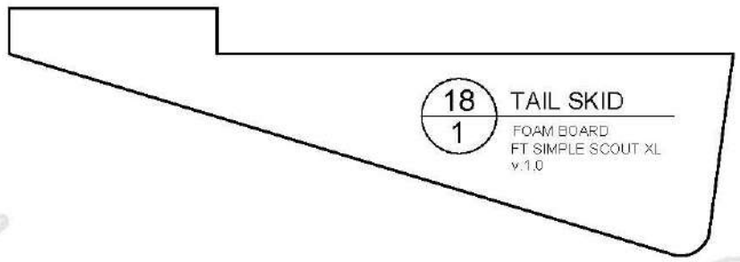
IN
CM

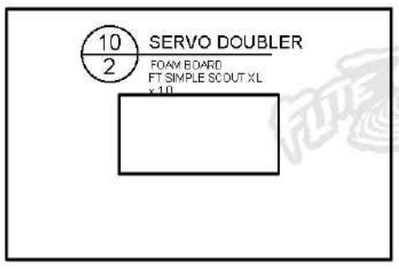


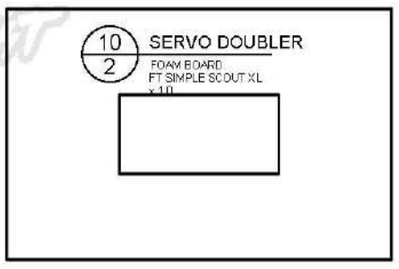
REMOVE AFTER ASSEMBLY











IN
CM

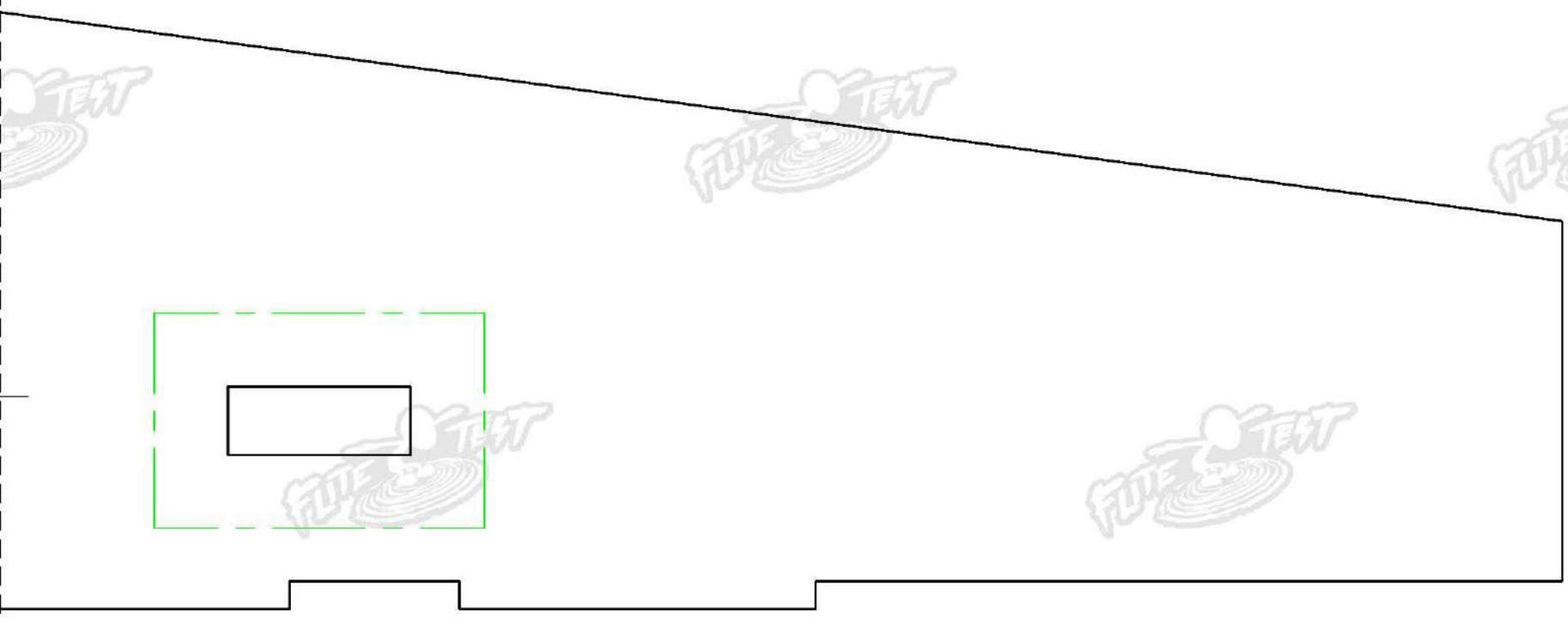
IN
CM

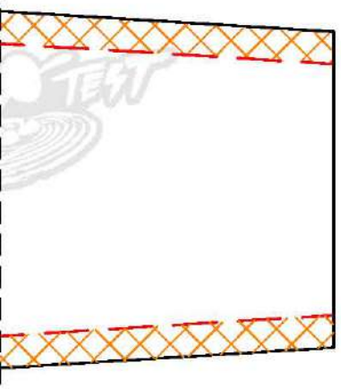
REMOVE
AFTER
FOLDING

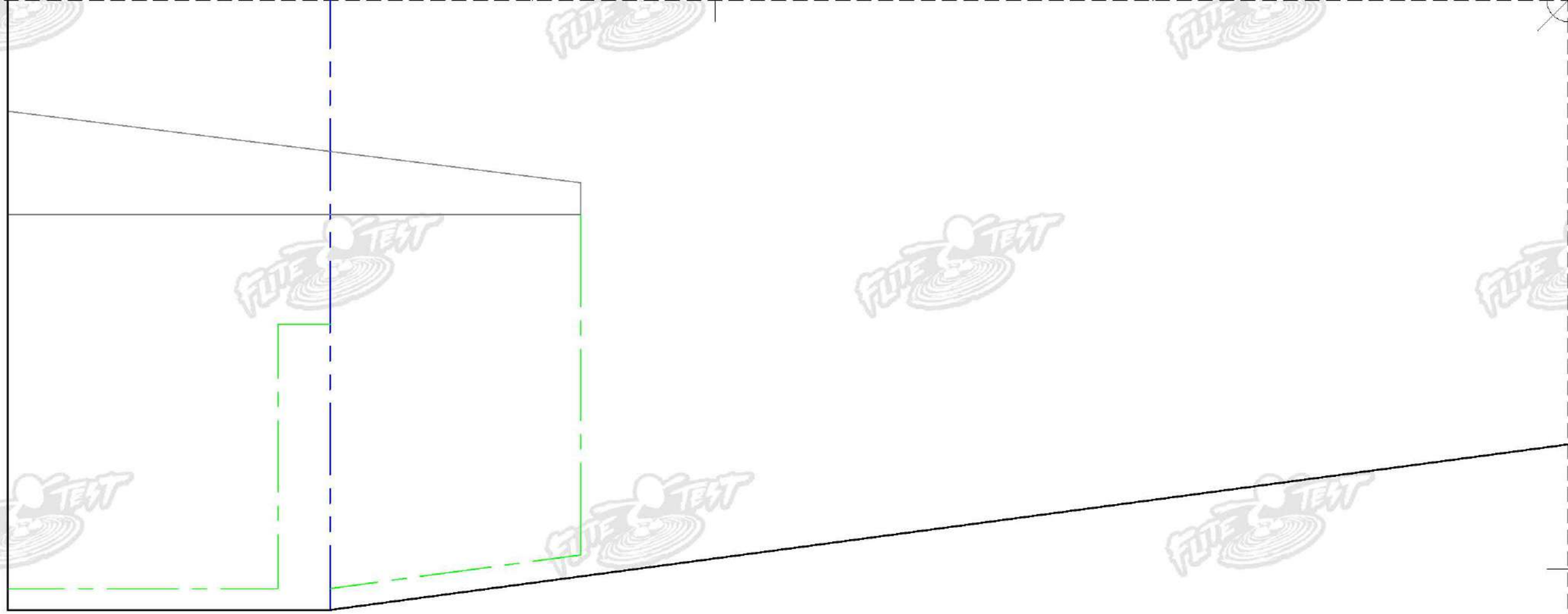
8/1 FUSELAGE REAR
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

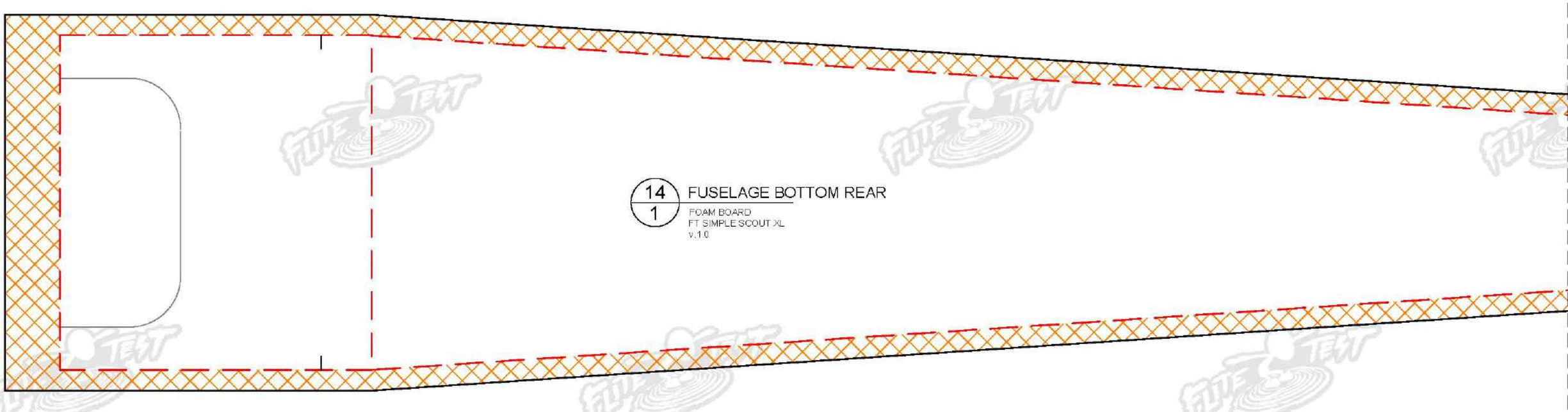
FT SIMPLE SCOUT XL v.1.0
TILE-B22

IN
CM



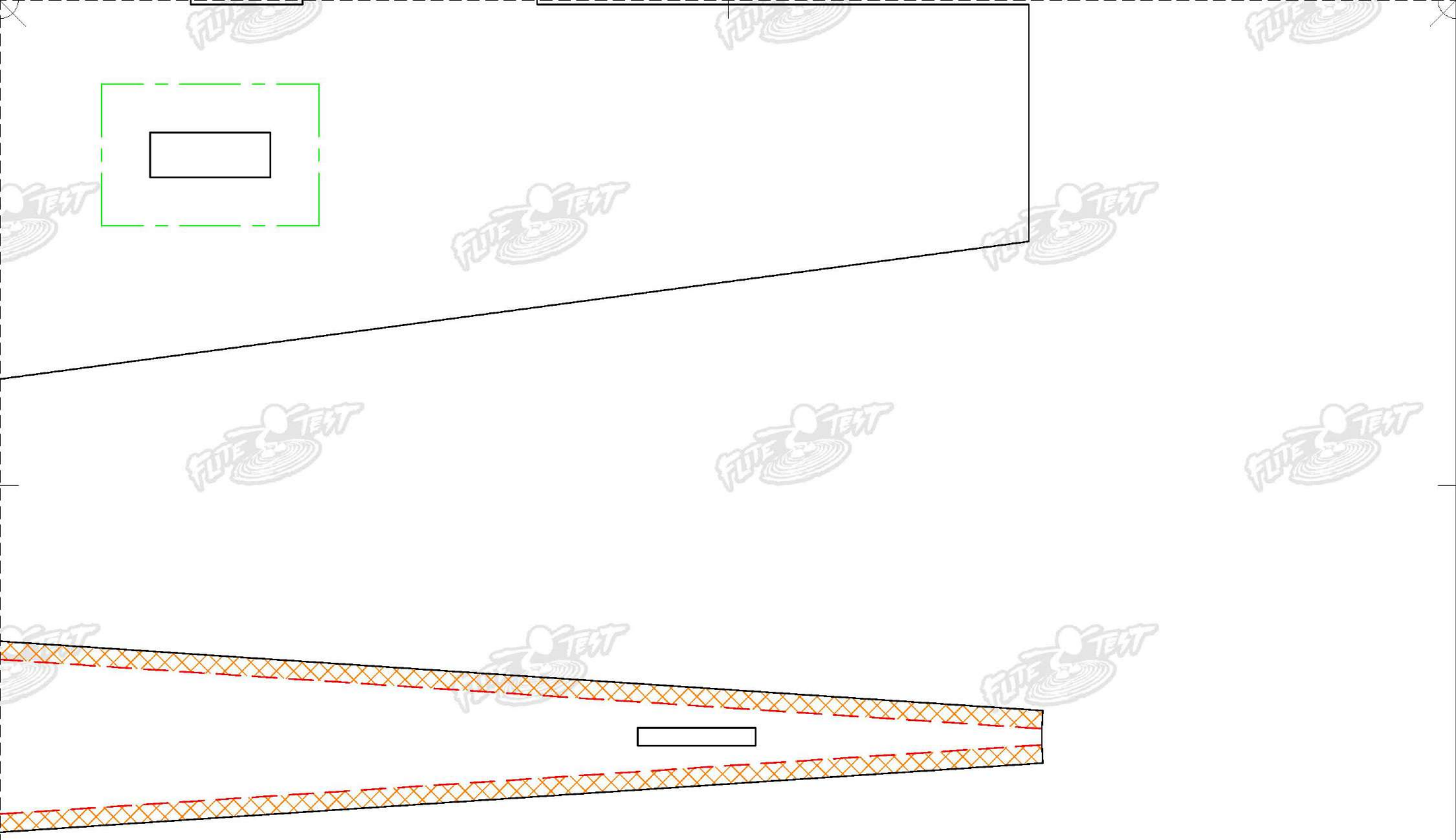






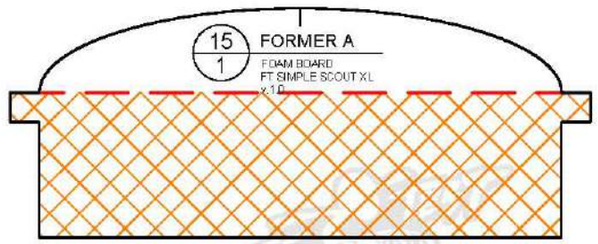
14
1
FUSELAGE BOTTOM REAR
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

IN
CM



IN
CM

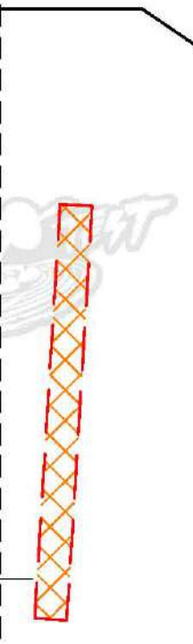
IN
CM

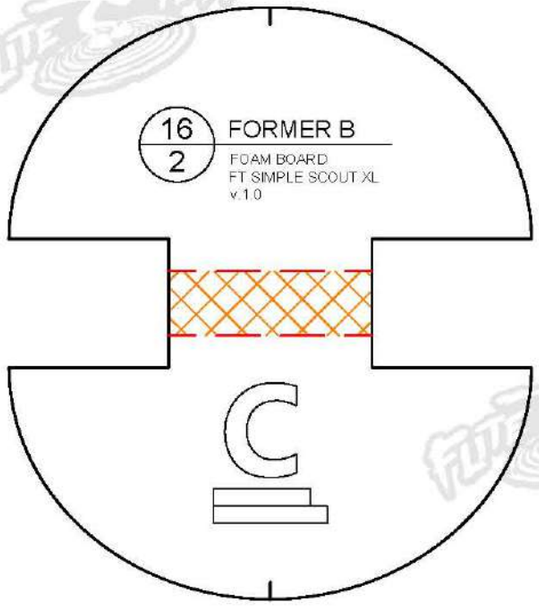


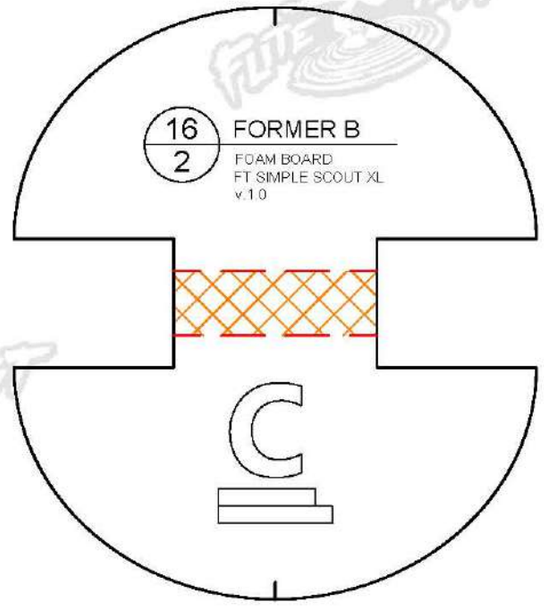
15/1 FORMER A
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

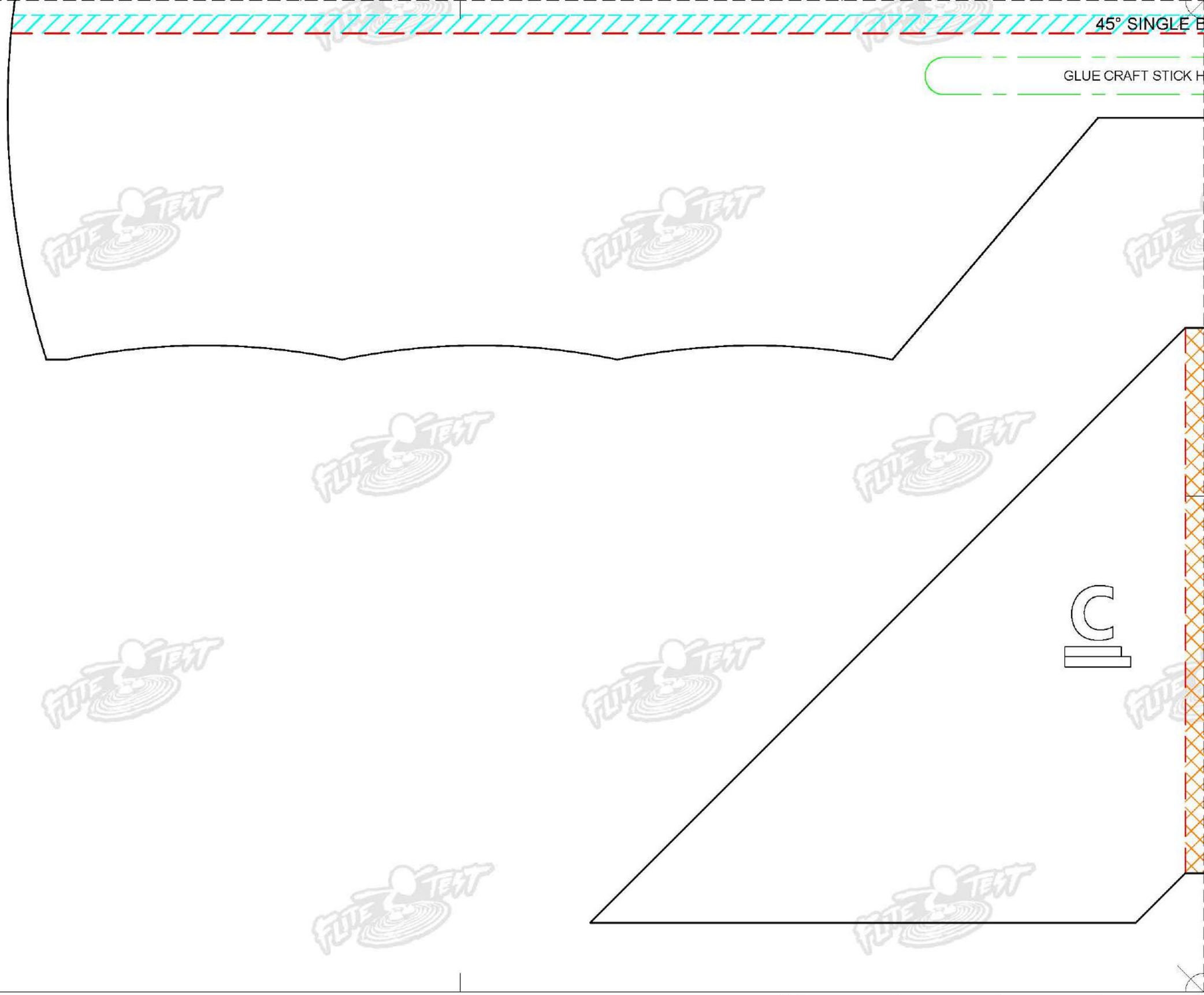
11/1 HORIZONTAL STABILIZER
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

IN
CM




16
2
FORMER B
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

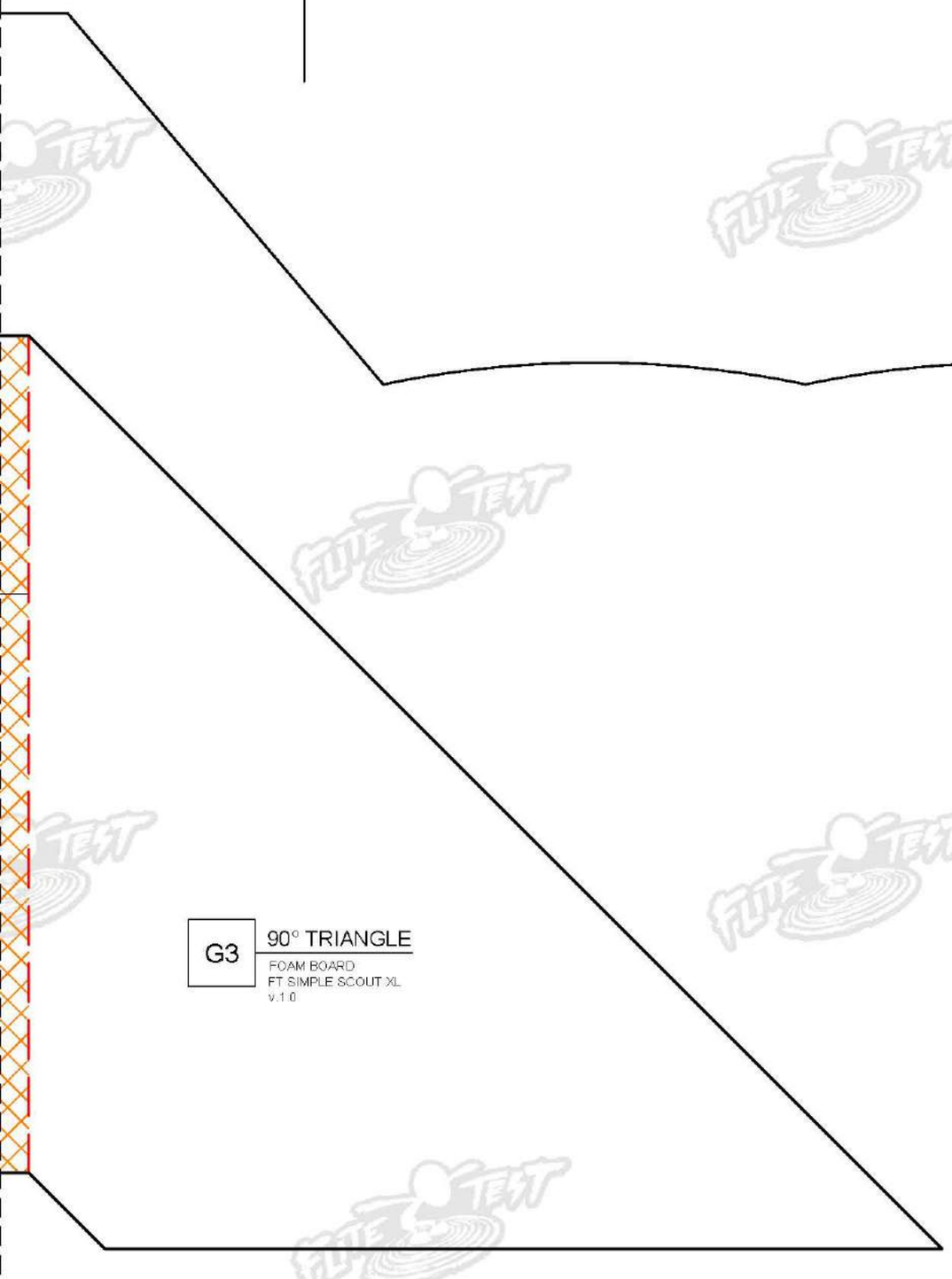

16
2
FORMER B
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0



IN
CM

EVEL

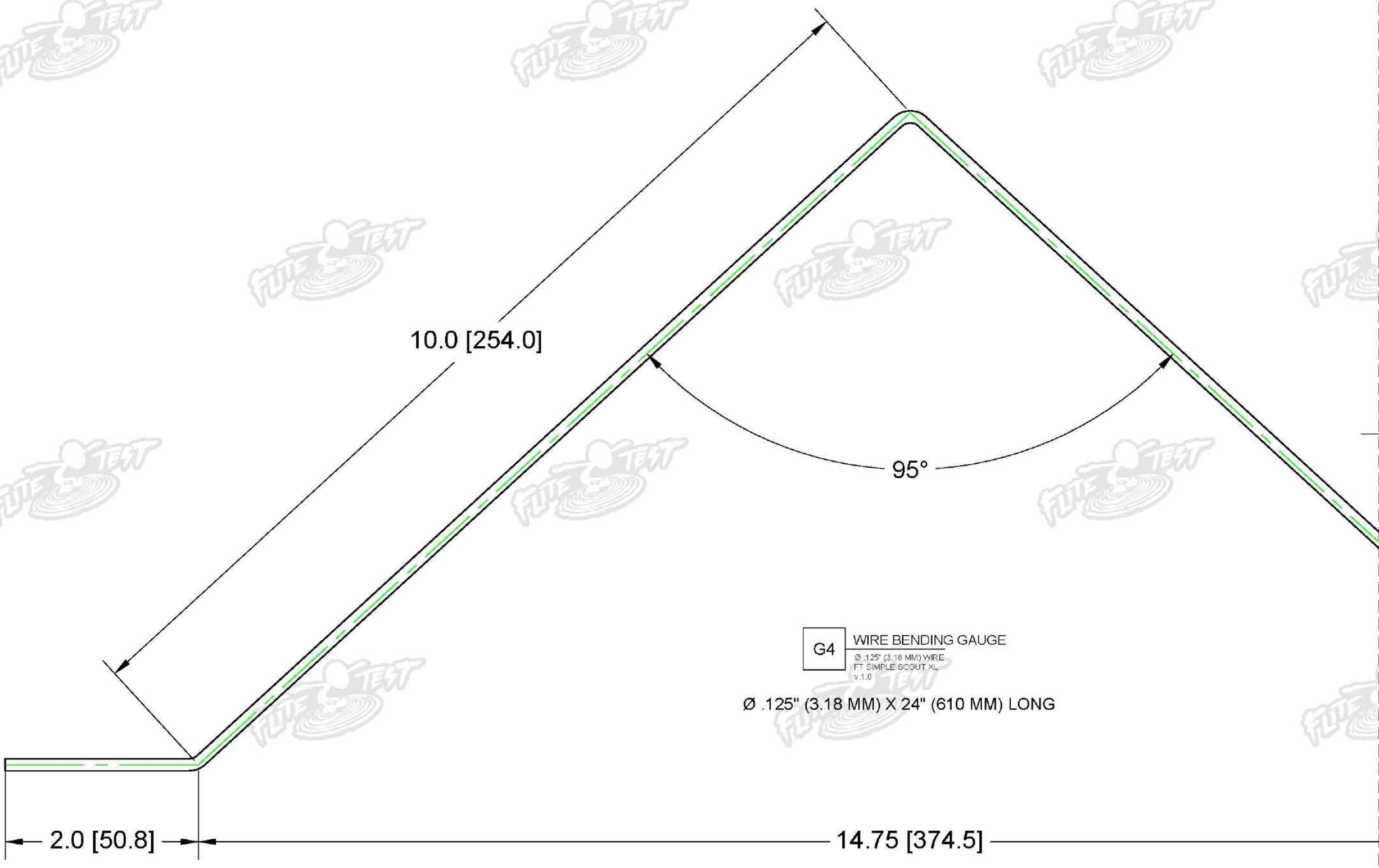
ERE



G3 90° TRIANGLE

FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

IN
CM

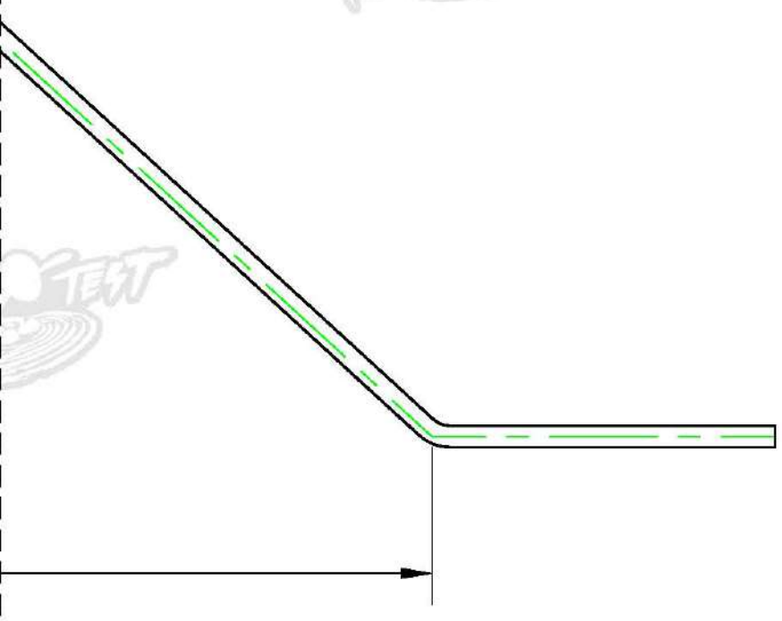


G4 WIRE BENDING GAUGE
Ø .125" (3.18 MM) WIRE
FT SIMPLE SCOUT XL
v.1.0

Ø .125" (3.18 MM) X 24" (610 MM) LONG

FT SIMPLE SCOUT XL v.1.0
TILE-B30

IN
CM



FT SIMPLE SCOUT XL v.1.0
TILE-B31

20 / 8 ENGINE A
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

20 / 8 ENGINE A
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

21 / 4 ENGINE B
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

21 / 4 ENGINE B
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

20 / 8 ENGINE A
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

20 / 8 ENGINE A
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

21 / 4 ENGINE B
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

21 / 4 ENGINE B
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

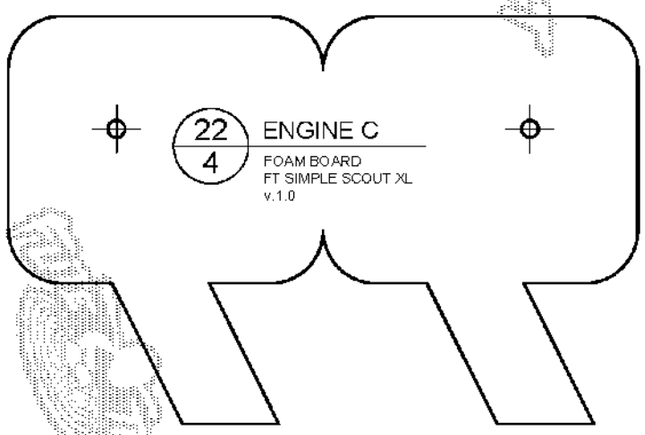
20 / 8 ENGINE A
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

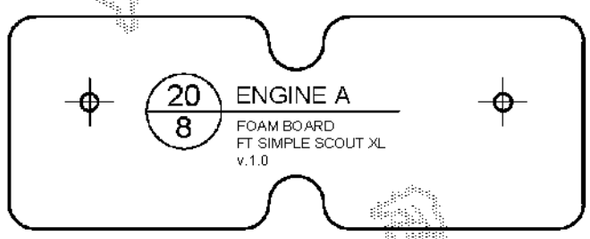
20 / 8 ENGINE A
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

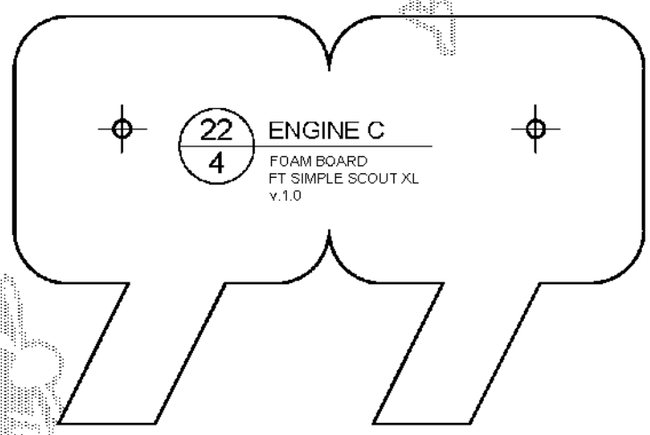
22 / 4 ENGINE C
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0

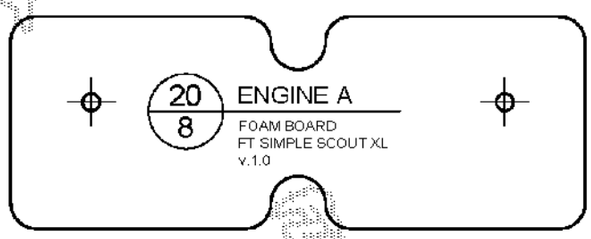
22 / 4 ENGINE C
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0




22
4
ENGINE C
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0


20
8
ENGINE A
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0


22
4
ENGINE C
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0


20
8
ENGINE A
FOAM BOARD
FT SIMPLE SCOUT XL
v.1.0


CM
IN